



SEQUENCE LISTING

<110>	Myriad Genetics, Incorporated Cimbora, Daniel Heichman, Karen Bartel, Paul Mauck, Kimberly Bush, Angie
<120>	COMPOSITIONS AND METHODS FOR TREATING INFLAMMATORY DISORDERS
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Leu Gly Arg Val His Phe Asp Gln Phe Lys Glu Ala Leu Ile Leu Ile
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Arg Arg Ser Leu Pro Glu Phe Gln Glu Ser Val Glu Glu Phe Pro Glu
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Pro Ala Gly Asp Cys Ser Glu His Trp Lys Thr Gln Arg Ser Glu Glu

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Phe Arg 1295	Leu Gln Asp Glu Leu 1300	Lys Lys Met Glu Glu 1305
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2125

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Gly Ile Val Lys Glu Gln Leu Ala Ala Val Thr Gln Lys Trp Asp Ser
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caa Gln ctg Leu cgt Arg gag Glu ttg Leu ata Ile gct Ala 1240	gaa Glu cac His aag Lys cct Pro cat His 1245	ata Ile gat Asp aag Lys 1255	3744
atg Met aac Asn aaa Lys act Thr ggg Gly cca Pro cag Gln 1250	tta Leu ctg Leu gaa Glu ttg Leu agc Ser 1260	cct Pro ggg Gly gaa Glu 1270	3789
ggc Gly ttt Phe tct Ser atc Ile caa Gln gag Glu aag Lys 1265	tat Tyr gtg Val gca Ala gcc Ala gac Asp 1275	acc Thr ctt Leu tac Tyr 1285	3834
agt Ser caa Gln att Ile aaa Lys gaa Glu gat Asp gtc Val 1280	aaa Lys aag Lys cgt Arg gct Ala gtg Val 1290	gca Ala ctg Leu gat Asp 1295	3879
gaa Glu gcc Ala att Ile tct Ser caa Gln tca Ser act Thr 1295	cag Gln ttc Phe cat His gac Asp aag Lys 1305	ata Ile gat Asp cag Gln 1315	3924
atc Ile ctt Leu gag Glu agc Ser ctg Leu gaa Glu cgc Arg 1310	atc Ile gtg Val gaa Glu cgt Arg ctg Leu 1320	agg Arg cag Gln cca Pro 1330	3969
ccc Pro tct Ser atc Ile tct Ser gca Ala gag Glu gtt Val 1325	gag Glu aag Lys atc Ile aag Lys gaa Glu 1335	cag Gln atc Ile agt Ser 1345	4014
gaa Glu aat Asn aag Lys aat Asn gtg Val tca Ser gta Val 1340	gac Asp atg Met gaa Glu aag Lys cta Leu 1350	cag Gln ccg Pro ttg Leu 1360	4059
tat Tyr gaa Glu act Thr ctt Leu aaa Lys cag Gln agg Arg 1355	gga Gly gag Glu gaa Glu atg Met att Ile 1365	gct Ala aga Arg tct Ser 1375	4104
ggg Gly ggg Gly act Thr gat Asp aaa Lys gac Asp ata Ile 1370	tct Ser gcc Ala aaa Lys gct Ala gtt Val 1380	cag Gln gat Asp aag Lys 1390	4149
ctt Leu gac Asp caa Gln atg Met gtt Val ttc Phe att Ile 1385	tgg Trp gag Glu aac Asn ata Ile cac His 1395	aca Thr ctg Leu gtg Val 1405	4194
gaa Glu gag Glu agg Arg gaa Glu gcc Ala aaa Lys cta Leu 1400	ctg Leu gat Asp gtg Val atg Met gag Glu 1410	cta Leu gca Ala gaa Glu 1420	4239
aag Lys ttc Phe tgg Trp tgt Cys gat Asp cac His atg Met 1415	tca Ser ttg Leu ata Ile gtt Val acc Thr 1425	att Ile aaa Lys gat Asp 1435	4284
act Thr caa Gln gat Asp ttc Phe atc Ile cgg Arg gac Asp 1430	ctg Leu gaa Glu gat Asp cct Pro gga Gly 1440	att Ile gat Asp cct Pro 1450	4329

1430	1435	1440	
tca Ser	gta Val 1445	gta Val 1445	aaa Lys
	caa Gln 1450	cag Gln 1450	caa Gln 1450
	gaa Glu 1455	gca Ala 1455	gca Ala 1455
	gag Glu 1455	acc Thr 1455	ata Ile 1455
	agg Arg 1455	gaa Glu 1455	4374
gaa Glu 1460	ata Ile 1460	gat Asp 1460	gga Gly 1460
	cta Leu 1465	cag Gln 1465	gag Glu 1465
	gag Glu 1470	ctg Leu 1470	gat Asp 1470
	ata Ile 1470	gtt Val 1470	att Ile 1470
	aac Asn 1470	cta Leu 1470	4419
ggt Gly 1475	tct Ser 1475	gaa Glu 1475	ctc Leu 1475
	att Ile 1480	gcg Ala 1480	gca Ala 1480
	tgt Cys 1485	ggg Gly 1485	gag Glu 1485
	cct Pro 1485	gat Asp 1485	aaa Lys 1485
	ccc Pro 1485	att Ile 1485	4464
gtc Val 1490	aag Lys 1490	aag Lys 1490	agt Ser 1490
	ata Ile 1495	gat Asp 1495	gag Glu 1495
	tta Leu 1500	aat Asn 1500	tca Ser 1500
	gca Ala 1500	tgg Trp 1500	gat Asp 1500
	tct Ser 1500	cta Leu 1500	4509
aat Asn 1505	aaa Lys 1505	gct Ala 1505	tgg Trp 1505
	aaa Lys 1510	gac Asp 1510	cgg Arg 1510
	att Ile 1515	gac Asp 1515	aaa Lys 1515
	ctt Leu 1515	gag Glu 1515	gag Glu 1515
	gca Ala 1515	atg Met 1515	4554
cag Gln 1520	gct Ala 1520	gcc Ala 1520	ggt Val 1520
	cag Gln 1525	tac Tyr 1525	cag Gln 1525
	gat Asp 1530	gga Gly 1530	ctg Leu 1530
	cag Gln 1530	gcg Ala 1530	gta Val 1530
	ttt Phe 1530	gac Asp 1530	4599
tgg Trp 1535	gta Val 1535	gat Asp 1535	att Ile 1535
	gca Ala 1540	ggt Gly 1540	aaa Lys 1540
	aaa Lys 1545	tta Leu 1545	gct Ala 1545
	tca Ser 1545	atg Met 1545	tct Ser 1545
	cca Pro 1545	att Ile 1545	4644
gga Gly 1550	aca Thr 1550	gat Asp 1550	ctc Leu 1550
	act Thr 1555	gtc Val 1555	aag Lys 1555
	aag Lys 1560	cag Gln 1560	cag Gln 1560
	att Ile 1560	gaa Glu 1560	gag Glu 1560
	cta Leu 1560	aag Lys 1560	4689
caa Gln 1565	ttt Phe 1565	aag Lys 1565	tct Ser 1565
	gag Glu 1570	gcc Ala 1570	tat Tyr 1570
	caa Gln 1575	cag Gln 1575	cag Gln 1575
	ata Ile 1575	gaa Glu 1575	atg Met 1575
	gaa Glu 1575	aga Glu 1575	4734
ctg Leu 1580	aat Asn 1580	cat His 1580	caa Gln 1580
	gca Ala 1585	gag Glu 1585	ctt Leu 1585
	ttg Leu 1590	cta Leu 1590	aag Lys 1590
	aaa Lys 1590	gta Val 1590	aca Thr 1590
	gaa Glu 1590	gag Glu 1590	4779
agt Ser 1595	gac Asp 1595	aaa Lys 1595	cac His 1595
	act Thr 1600	ggt Val 1600	caa Gln 1600
	gac Asp 1605	cca Pro 1605	tta Leu 1605
	atg Met 1605	gaa Glu 1605	ctg Leu 1605
	aaa Lys 1605	ttg Leu 1605	4824
ata Ile 1610	tgg Trp 1610	gat Asp 1610	agc Ser 1610
	ctg Leu 1615	gag Glu 1615	gag Glu 1615
	aga Arg 1620	atc Ile 1620	atc Ile 1620
	aac Asn 1620	aga Arg 1620	cag Gln 1620
	cat His 1620	aaa Lys 1620	4869
ctg Leu 1625	gag Glu 1625	ggt Gly 1625	gct Ala 1625
	cta Leu 1630	tta Leu 1630	gcc Ala 1630
	ttg Leu 1635	ggt Gly 1635	cag Gln 1635
	ttc Phe 1635	caa Gln 1635	cat His 1635
	gcc Ala 1635	ctg Leu 1635	4914
gat Asp 1640	gag Glu 1640	ctc Leu 1640	ctg Leu 1640
	gca Ala 1645	tgg Trp 1645	ctg Leu 1645
	aca Thr 1650	cac His 1650	acc Thr 1650
	gag Glu 1650	ggc Gly 1650	ttg Leu 1650
	cta Leu 1650	agt Ser 1650	5004
gag Glu 1655	cag Gln 1655	aaa Lys 1655	cct Pro 1655
	ggt Val 1660	gga Gly 1660	gga Gly 1660
	gac Asp 1665	cct Pro 1665	aaa Lys 1665
	gcc Ala 1665	att Ile 1665	gaa Glu 1665
	att Ile 1665	gaa Glu 1665	att Ile 1665
	gaa Glu 1665	gaa Glu 1665	5049
ctt Leu 1670	gcc Ala 1670	aag Lys 1670	cat His 1670
	cat His 1675	gtg Val 1675	ctc Leu 1675
	caa Gln 1680	aat Asn 1680	gat Asp 1680
	gta Val 1680	tta Leu 1680	gcc Ala 1680
	cat His 1680	cag Gln 1680	

	1670					1675					1680					
tcc Ser	aca Thr 1685	gtg Val	gaa Glu	gcc Ala	gtt Val	aat Asn 1690	aaa Lys	gca Ala	gga Gly	aat Asn	gat Asp 1695	cta Leu	att Ile	gaa Glu	5094	
tca Ser	agt Ser 1700	gca Ala	gga Gly	gaa Glu	gaa Glu	gca Ala 1705	agc Ser	aac Asn	ctt Leu	cag Gln	aac Asn 1710	aag Lys	cta Leu	gag Glu	5139	
gtt Val	tta Leu 1715	aat Asn	caa Gln	cgc Arg	tgg Trp	caa Gln 1720	aat Asn	gtt Val	ttg Leu	gaa Glu	aaa Lys 1725	aca Thr	gaa Glu	caa Gln	5184	
agg Arg	aag Lys 1730	cag Gln	cag Gln	ctg Leu	gat Asp	ggt Gly 1735	gcc Ala	ttg Leu	cgc Arg	cag Gln	gcc Ala 1740	aaa Lys	ggg Gly	ttc Phe	5229	
cat His	ggc Gly 1745	gaa Glu	att Ile	gag Glu	gat Asp	ttg Leu 1750	cag Gln	cag Gln	tgg Trp	ctg Leu	act Thr 1755	gac Asp	acg Thr	gag Glu	5274	
cgt Arg	cat His 1760	ctg Leu	ttg Leu	gca Ala	tct Ser	aaa Lys 1765	ccg Pro	ctg Leu	gga Gly	ggt Gly	tta Leu 1770	ccg Pro	gaa Glu	aca Thr	5319	
gcc Ala	aag Lys 1775	gag Glu	cag Gln	ctt Leu	aat Asn	gtc Val 1780	cat His	atg Met	gaa Glu	gtc Val	tgt Cys 1785	gct Ala	gcc Ala	ttt Phe	5364	
gaa Glu	gct Ala 1790	aaa Lys	gaa Glu	gaa Glu	aca Thr	tat Tyr 1795	aag Lys	agt Ser	ctg Leu	atg Met	cag Gln 1800	aaa Lys	ggc Gly	cag Gln	5409	
cag Gln	atg Met 1805	ctt Leu	gca Ala	aga Arg	tgc Cys	cca Pro 1810	aaa Lys	tct Ser	gca Ala	gag Glu	aca Thr 1815	aat Asn	att Ile	gac Asp	5454	
caa Gln	gac Asp 1820	ata Ile	aat Asn	aac Asn	ttg Leu	aaa Lys 1825	gaa Glu	aaa Lys	tgg Trp	gaa Glu	tcg Ser 1830	gtg Val	gaa Glu	acc Thr	5499	
aaa Lys	ctc Leu 1835	aat Asn	gaa Glu	agg Arg	aaa Lys	act Thr 1840	aaa Lys	ctg Leu	gaa Glu	gag Glu	gct Ala 1845	ctc Leu	aac Asn	ttg Leu	5544	
gca Ala	atg Met 1850	gag Glu	ttc Phe	cac His	aat Asn	tct Ser 1855	ctc Leu	caa Gln	gac Asp	ttc Phe	atc Ile 1860	aac Asn	tgg Trp	ctt Leu	5589	
act Thr	cag Gln 1865	gct Ala	gaa Glu	cag Gln	acc Thr	cta Leu 1870	aat Asn	gta Val	gct Ala	tct Ser	cgg Arg 1875	cca Pro	agt Ser	ctc Leu	5634	
atc Ile	ttg Leu 1880	gac Asp	aca Thr	gtc Val	tta Leu	ttt Phe 1885	caa Gln	att Ile	gac Asp	gaa Glu	cac His 1890	aag Lys	gtt Val	ttt Phe	5679	
gcc Ala	aat Asn 1895	gaa Glu	gta Val	aat Asn	tct Ser	cat His 1900	cgt Arg	gag Glu	cag Gln	ata Ile	ata Ile 1905	gag Glu	ctg Leu	gac Asp	5724	
aaa Lys	act Thr	gga Gly	acc Thr	cac His	cta Leu	aaa Lys	tat Tyr	ttt Phe	agt Ser	cag Gln	aaa Lys	caa Gln	gat Asp	gtt Val	5769	

	1910					1915					1920					
gtt Val	cta Leu 1925	atc Ile	aag Lys	aat Asn	cta Leu	ctt Leu 1930	atc Ile	agt Ser	gta Val	caa Gln	agt Ser 1935	cga Arg	tgg Trp	gaa Glu	5814	
aaa Lys	gtg Val 1940	gtt Val	caa Gln	cgg Arg	ttg Leu	gta Val 1945	gag Glu	aga Arg	gga Gly	aga Arg	tct Ser 1950	ttg Leu	gat Asp	gat Asp	5859	
gca Ala	agg Arg 1955	aag Lys	aga Arg	gcc Ala	aag Lys	cag Gln 1960	ttc Phe	cat His	gaa Glu	gct Ala	tgg Trp 1965	agt Ser	aaa Lys	ctt Leu	5904	
atg Met	gag Glu 1970	tgg Trp	cta Leu	gaa Glu	gag Glu	tca Ser 1975	gaa Glu	aag Lys	tct Ser	ttg Leu	gat Asp 1980	tct Ser	gaa Glu	ctg Leu	5949	
gaa Glu	atc Ile 1985	gca Ala	aat Asn	gat Asp	cca Pro	gac Asp 1990	aaa Lys	ata Ile	aaa Lys	aca Thr	caa Gln 1995	ctt Leu	gca Ala	caa Gln	5994	
cat His	aag Lys 2000	gag Glu	ttt Phe	cag Gln	aaa Lys	tca Ser 2005	ctc Leu	gga Gly	gcc Ala	aag Lys	cat His 2010	tct Ser	gtc Val	tac Tyr	6039	
gac Asp	acc Thr 2015	acc Thr	aac Asn	agg Arg	act Thr	gga Gly 2020	cgt Arg	tct Ser	ctg Leu	aag Lys	gag Glu 2025	aaa Lys	acc Thr	tcc Ser	6084	
ctg Leu	gct Ala 2030	gat Asp	gac Asp	aac Asn	ctg Leu	aaa Lys 2035	ctg Leu	gat Asp	gac Asp	atg Met	ctg Leu 2040	agt Ser	gaa Glu	ctc Leu	6129	
aga Arg	gac Asp 2045	aaa Lys	tgg Trp	gat Asp	acc Thr	ata Ile 2050	tgt Cys	gga Gly	aaa Lys	tct Ser	gtg Val 2055	gaa Glu	aga Arg	caa Gln	6174	
aac Asn	aaa Lys 2060	ttg Leu	gag Glu	gaa Glu	gcc Ala	ctg Leu 2065	tta Leu	ttt Phe	tct Ser	gga Gly	caa Gln 2070	ttc Phe	aca Thr	gat Asp	6219	
gcc Ala	cta Leu 2075	cag Gln	gct Ala	ctc Leu	att Ile	gat Asp 2080	tgg Trp	tta Leu	tat Tyr	aga Arg	gtt Val 2085	gaa Glu	ccc Pro	cag Gln	6264	
ctg Leu	gca Ala 2090	gaa Glu	gac Asp	cag Gln	cct Pro	gtt Val 2095	cat His	gga Gly	gac Asp	att Ile	gat Asp 2100	ttg Leu	gtg Val	atg Met	6309	
aat Asn	ctg Leu 2105	atc Ile	gat Asp	aat Asn	cac His	aag Lys 2110	gcc Ala	ttc Phe	caa Gln	aaa Lys	gag Glu 2115	ttg Leu	ggg Gly	aag Lys	6354	
agg Arg	acc Thr 2120	agc Ser	agt Ser	gtg Val	cag Gln	gcc Ala 2125	ctg Leu	aag Lys	cgc Arg	tca Ser	gcc Ala 2130	cga Arg	gaa Glu	ctc Leu	6399	
ata Ile	gaa Glu 2135	ggc Gly	agt Ser	cgg Arg	gat Asp	gac Asp 2140	tcc Ser	tcc Ser	tgg Trp	gtc Val	aag Lys 2145	gtc Val	cag Gln	atg Met	6444	
cag Gln	gaa Glu	tta Leu	agc Ser	aca Thr	cgc Arg	tgg Trp	gag Glu	acc Thr	gtg Val	tgt Cys	gca Ala	ctt Leu	tct Ser	ata Ile	6489	

	2150					2155					2160					
tca	aag	caa	aca	cgg	tta	gaa	gca	gcc	ctg	cgt	cag	gca	gag	gaa		6534
Ser	Lys	Gln	Thr	Arg	Leu	Glu	Ala	Ala	Leu	Arg	Gln	Ala	Glu	Glu		
	2165					2170					2175					
ttc	cac	tcg	gtg	gta	cat	gcc	ctc	ttg	gag	tgg	ctg	gct	gag	gcg		6579
Phe	His	Ser	Val	Val	His	Ala	Leu	Leu	Glu	Trp	Leu	Ala	Glu	Ala		
	2180					2185					2190					
gag	caa	acc	ctg	cgt	ttc	cat	ggg	gtc	ctc	cca	gat	gat	gag	gat		6624
Glu	Gln	Thr	Leu	Arg	Phe	His	Gly	Val	Leu	Pro	Asp	Asp	Glu	Asp		
	2195					2200					2205					
gct	ctc	cgg	act	ctc	att	gat	cag	cat	aaa	gaa	ttc	atg	aag	aaa		6669
Ala	Leu	Arg	Thr	Leu	Ile	Asp	Gln	His	Lys	Glu	Phe	Met	Lys	Lys		
	2210					2215					2220					
ctg	gaa	gaa	aag	aga	gct	gaa	cta	aat	aaa	gcc	acc	act	atg	ggc		6714
Leu	Glu	Glu	Lys	Arg	Ala	Glu	Leu	Asn	Lys	Ala	Thr	Thr	Met	Gly		
	2225					2230					2235					
gac	acc	gtt	ttg	gct	atc	tgc	cac	ccc	gac	tcc	atc	act	acc	att		6759
Asp	Thr	Val	Leu	Ala	Ile	Cys	His	Pro	Asp	Ser	Ile	Thr	Thr	Ile		
	2240					2245					2250					
aag	cac	tgg	ata	aca	atc	atc	cgg	gcg	agg	ttt	gag	gag	gtg	ctg		6804
Lys	His	Trp	Ile	Thr	Ile	Ile	Arg	Ala	Arg	Phe	Glu	Glu	Val	Leu		
	2255					2260					2265					
gcc	tgg	gca	aag	caa	cat	cag	cag	aga	tta	gca	agt	gct	ctg	gct		6849
Ala	Trp	Ala	Lys	Gln	His	Gln	Gln	Arg	Leu	Ala	Ser	Ala	Leu	Ala		
	2270					2275					2280					
ggg	ctt	att	gcc	aaa	cag	gaa	ttg	ttg	gaa	gct	ttg	ctg	gct	tgg		6894
Gly	Leu	Ile	Ala	Lys	Gln	Glu	Leu	Leu	Glu	Ala	Leu	Leu	Ala	Trp		
	2285					2290					2295					
ttg	caa	tgg	gct	gaa	act	aca	ctt	act	gat	aag	gat	aaa	gaa	gtc		6939
Leu	Gln	Trp	Ala	Glu	Thr	Thr	Leu	Thr	Asp	Lys	Asp	Lys	Glu	Val		
	2300					2305					2310					
atc	ccc	cag	gag	atc	gaa	gag	gtg	aaa	gca	ctc	att	gca	gaa	cac		6984
Ile	Pro	Gln	Glu	Ile	Glu	Glu	Val	Lys	Ala	Leu	Ile	Ala	Glu	His		
	2315					2320					2325					
cag	acc	ttc	atg	gag	gaa	atg	acc	aga	aaa	cag	cct	gat	gtt	gat		7029
Gln	Thr	Phe	Met	Glu	Glu	Met	Thr	Arg	Lys	Gln	Pro	Asp	Val	Asp		
	2330					2335					2340					
aaa	gta	acg	aag	acc	tat	aag	agg	aga	gct	gct	gat	cct	tcc	tca		7074
Lys	Val	Thr	Lys	Thr	Tyr	Lys	Arg	Arg	Ala	Ala	Asp	Pro	Ser	Ser		
	2345					2350					2355					
tta	caa	tcc	cat	att	cca	gtc	ttg	gat	aag	gga	cga	gca	gga	aga		7119
Leu	Gln	Ser	His	Ile	Pro	Val	Leu	Asp	Lys	Gly	Arg	Ala	Gly	Arg		
	2360					2365					2370					
aaa	cgc	ttt	cca	gca	tca	agc	ttg	tat	ccc	tct	ggg	tca	cag	aca		7164
Lys	Arg	Phe	Pro	Ala	Ser	Ser	Leu	Tyr	Pro	Ser	Gly	Ser	Gln	Thr		
	2375					2380					2385					
caa	att	gaa	acc	aaa	aat	cct	agg	gta	aac	tta	ctg	gtg	agc	aaa		7209
Gln	Ile	Glu	Thr	Lys	Asn	Pro	Arg	Val	Asn	Leu	Leu	Val	Ser	Lys		

2390						2395						2400						
tgg	cag	caa	gtc	tgg	ctc	ctg	gcg	ttg	gaa	aga	agg	agg	aaa	ctc				7254
Trp	Gln	Gln	Val	Trp	Leu	Leu	Ala	Leu	Glu	Arg	Arg	Arg	Lys	Leu				
	2405					2410					2415							
aat	gat	gcc	ttg	gac	aga	cta	gag	gag	ctg	agg	gaa	ttt	gct	aac				7299
Asn	Asp	Ala	Leu	Asp	Arg	Leu	Glu	Glu	Leu	Arg	Glu	Phe	Ala	Asn				
	2420					2425					2430							
ttt	gat	ttt	gat	att	tgg	cgc	aaa	aaa	tac	atg	cga	tgg	atg	aat				7344
Phe	Asp	Phe	Asp	Ile	Trp	Arg	Lys	Lys	Tyr	Met	Arg	Trp	Met	Asn				
	2435					2440					2445							
cac	aag	aaa	tct	cga	gtg	atg	gac	ttc	ttc	agg	aga	att	gat	aaa				7389
His	Lys	Lys	Ser	Arg	Val	Met	Asp	Phe	Phe	Arg	Arg	Ile	Asp	Lys				
	2450					2455					2460							
gac	cag	gat	ggg	aaa	ata	acg	cgg	cag	gaa	ttt	att	gat	gga	att				7434
Asp	Gln	Asp	Gly	Lys	Ile	Thr	Arg	Gln	Glu	Phe	Ile	Asp	Gly	Ile				
	2465					2470					2475							
ctt	tcc	tca	aag	ttt	cca	acc	agt	cgc	ttg	gag	atg	agc	gca	gtt				7479
Leu	Ser	Ser	Lys	Phe	Pro	Thr	Ser	Arg	Leu	Glu	Met	Ser	Ala	Val				
	2480					2485					2490							
gca	gac	atc	ttt	gac	aga	gat	ggc	gat	gga	tat	att	gac	tac	tat				7524
Ala	Asp	Ile	Phe	Asp	Arg	Asp	Gly	Asp	Gly	Tyr	Ile	Asp	Tyr	Tyr				
	2495					2500					2505							
gaa	ttt	gta	gca	gcc	ctt	cac	cca	aat	aaa	gat	gca	tat	aaa	cct				7569
Glu	Phe	Val	Ala	Ala	Leu	His	Pro	Asn	Lys	Asp	Ala	Tyr	Lys	Pro				
	2510					2515					2520							
atc	aca	gat	gcc	gac	aaa	atc	gaa	gat	gag	gtg	aca	agg	cag	gta				7614
Ile	Thr	Asp	Ala	Asp	Lys	Ile	Glu	Asp	Glu	Val	Thr	Arg	Gln	Val				
	2525					2530					2535							
gct	aag	tgt	aaa	tgt	gca	aag	cga	ttt	caa	gtt	gag	cag	att	ggt				7659
Ala	Lys	Cys	Lys	Cys	Ala	Lys	Arg	Phe	Gln	Val	Glu	Gln	Ile	Gly				
	2540					2545					2550							
gat	aat	aaa	tac	agg	ttc	ttc	ctg	gga	aat	cag	ttt	gga	gac	tcc				7704
Asp	Asn	Lys	Tyr	Arg	Phe	Phe	Leu	Gly	Asn	Gln	Phe	Gly	Asp	Ser				
	2555					2560					2565							
cag	caa	ctg	cga	ctg	gtc	cgg	atc	ctg	cgg	agt	act	gtg	atg	gtt				7749
Gln	Gln	Leu	Arg	Leu	Val	Arg	Ile	Leu	Arg	Ser	Thr	Val	Met	Val				
	2570					2575					2580							
cgt	gtt	gga	ggt	gga	tgg	atg	gca	ctt	gat	gag	ttc	tta	gtg	aaa				7794
Arg	Val	Gly	Gly	Gly	Trp	Met	Ala	Leu	Asp	Glu	Phe	Leu	Val	Lys				
	2585					2590					2595							
aat	gat	cct	tgc	agg	gcc	aaa	gga	agg	aca	aac	atg	gaa	ctg	cgt				7839
Asn	Asp	Pro	Cys	Arg	Ala	Lys	Gly	Arg	Thr	Asn	Met	Glu	Leu	Arg				
	2600					2605					2610							
gag	aag	ttc	att	tta	gca	gat	ggt	gcc	agc	cag	ggt	atg	gct	gct				7884
Glu	Lys	Phe	Ile	Leu	Ala	Asp	Gly	Ala	Ser	Gln	Gly	Met	Ala	Ala				
	2615					2620					2625							
ttc	cga	ccc	cga	ggc	cga	aga	tcc	cgg	cca	tca	tca	cga	ggc	gct				7929
Phe	Arg	Pro	Arg	Gly	Arg	Arg	Ser	Arg	Pro	Ser	Ser	Arg	Gly	Ala				

2630				2635				2640								
tca Ser	ccc Pro 2645	aac Asn	aga Arg	tcc Ser	act Thr	tct Ser 2650	gtg Val	tcc Ser	agt Ser	cag Gln	gct Ala 2655	gcg Ala	cag Gln	gcg Ala	7974	
gcc Ala	tcc Ser 2660	cca Pro	cag Gln	gtc Val	cct Pro	gcc Ala 2665	acc Thr	acc Thr	aca Thr	ccc Pro	aag Lys 2670	att Ile	ctc Leu	cat His	8019	
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Leu Gln Glu Phe Ala Thr Arg Lys Pro Gln Tyr Glu Gln Leu Thr Ala
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Ala Gly Gln Gly Ile Leu Ser Arg Pro Gly Glu Asp Pro Ser Leu Arg
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Gly Ile Val Lys Glu Gln Leu Ala Ala Val Thr Gln Lys Trp Asp Ser
 65 70 75 80

Leu Thr Gly Gln Leu Ser Asp Arg Cys Asp Trp Ile Asp Gln Ala Ile
 85 90 95

Val Lys Ser Thr Gln Tyr Gln Ser Leu Leu Arg Ser Leu Ser Asp Lys
 100 105 110

Leu Ser Asp Leu Asp Asn Lys Leu Ser Ser Ser Leu Ala Val Ser Thr
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His Pro Asp Ala Met Asn Gln Gln Leu Glu Thr Ala Gln Lys Met Lys
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Gln Glu Ile Gln Gln Glu Lys Lys Gln Ile Lys Val Ala Gln Ala Leu
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Cys Glu Asp Leu Ser Ala Leu Val Lys Glu Glu Tyr Leu Lys Ala Glu
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 Leu Ser Arg Gln Leu Glu Gly Ile Leu Lys Ser Phe Lys Asp Val Glu
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 Gln Lys Ala Glu Asn His Val Gln His Leu Gln Ser Ala Cys Ala Ser
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 Ser His Gln Phe Gln Gln Met Ser Arg Asp Phe Gln Ala Trp Leu Asp
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 Thr Lys Lys Glu Glu Gln Asn Lys Ser His Pro Ile Ser Ala Lys Leu
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 Asp Val Leu Glu Ser Leu Ile Lys Asp His Lys Asp Phe Ser Lys Thr
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 Gln Leu Asn Thr Ile Lys Thr Asn Trp Asp Thr Phe Asn Lys Gln Val
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Cys Leu Glu Asn Met Thr Gln Lys Phe Lys Glu Phe Gln Glu Val Ser
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 Lys Glu Ser Lys Arg Gln Leu Gln Cys Ala Lys Glu Gln Leu Asp Ile
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 His Asp Ser Leu Gly Ser Gln Ala Tyr Ser Asn Lys Tyr Leu Thr Met
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 Lys Gly Thr Ser Asp Val Leu Leu Gln Val Glu Thr Ile Ala Gln Glu
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 Phe Ser Gln Phe Ala Glu Phe Asp Asp Glu Leu Asp Ser Met Ala Pro
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 Ile Lys Arg Leu Glu Glu Phe Tyr Ser Lys Leu Lys Glu Phe Ser Ile
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 Leu Leu Gln Lys Ala Glu Glu His Glu Glu Ser Gln Gly Pro Val Gly
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Met Glu Thr Glu Thr Ile Asn Gln Gln Leu Asn Met Phe Lys Val Phe
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 Lys Leu Glu Glu Gln Ile Ala Gln His Lys Val Leu Gln Glu Asp Ile
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 Thr Glu Lys Lys Leu Met Ser Leu Gly Asp Ile Arg Leu Glu Gln
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 Asp Gln Thr Ser Ala Gln Leu Gln Val Gln Lys Thr Phe Thr Met
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His	Lys	Glu	Phe	Gln	Lys	Ser	Leu	Gly	Ala	Lys	His	Ser	Val	Tyr
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Gln	Gln	Leu	Arg	Leu	Val	Arg	Ile	Leu	Arg	Ser	Thr	Val	Met	Val
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Glu	Lys	Phe	Ile	Leu	Ala	Asp	Gly	Ala	Ser	Gln	Gly	Met	Ala	Ala
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Ser	Pro	Asn	Arg	Ser	Thr	Ser	Val	Ser	Ser	Gln	Ala	Ala	Gln	Ala
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Pro	Ser	Ala	Glu	Gly	Thr	Pro	Ile	Gln	Gly	Ser	Lys	Leu	Arg	Leu
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Pro	Gly	Tyr	Leu	Ser	Gly	Lys	Gly	Phe	His	Ser	Gly	Glu	Asp	Ser
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Glu Thr Arg Asn Arg Gly Ile Ser Phe His Arg Leu Pro Lys Lys Asp
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aac ccg agg cga ggc ttg tgg ctg gcc aac tgc cag cgg ctg gac ccc 144
 Asn Pro Arg Arg Gly Leu Trp Leu Ala Asn Cys Gln Arg Leu Asp Pro
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 Ser Gly Gln Gly Leu Trp Asp Pro Ala Ser Glu Tyr Ile Tyr Phe Cys
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Ser Lys His Phe Glu Glu Asp Cys Phe Glu Leu Val Gly Ile Ser Gly
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Ser Lys Leu Arg Arg Thr Thr Lys Thr Lys Gly His Ser Tyr Pro Pro
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Gly Pro Ala Glu Val Ser Arg Leu Arg Arg Cys Arg Lys Arg Cys Ser
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Glu Gly Arg Gly Pro Thr Thr Pro Phe Ser Pro Pro Pro Pro Ala Asp
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Ala Ser Pro Ala Gly Arg Leu Glu Pro Gly Leu Ser Ser Pro Phe Ser
165 170 175

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Asp Leu Leu Gly Pro Leu Gly Ala Gln Ala Asp Glu Ala Gly Cys Ser
180 185 190

gcc cag cct tca cca gag cgg cag ccc tcc cct ctc gaa cca cgg cca 624
Ala Gln Pro Ser Pro Glu Arg Gln Pro Ser Pro Leu Glu Pro Arg Pro

gtc tcc ccc tca gcg tat atg ctg cgc ctg ccc cca ccc gcc gga gcc 672
Val Ser Pro Ser Ala Tyr Met Leu Arg Leu Pro Pro Ala Gly Ala
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cag Gln	ctg Leu	cag Gln	gcc Ala 260	tgc Cys	aag Lys	cgg Arg	cgg Arg	gag Glu 265	cag Gln	cgg Arg	ctg Leu	cgg Arg	ttg Leu 270	aga Arg	ctg Leu	816
acc Thr	aag Lys	ctg Leu 275	cag Gln	cag Gln	gag Glu	cgg Arg	gca Ala 280	cgg Arg	gag Glu	aag Lys	cgg Arg	gca Ala 285	cag Gln	gca Ala	gat Asp	864
gcc Ala 290	cgc Arg	cag Gln	act Thr	ctg Leu	aag Lys	gag Glu 295	cat His	gtg Val	cag Gln	gac Asp	ttt Phe 300	gcc Ala	atg Met	cag Gln	ctg Leu	912
agc Ser 305	agc Ser	agc Ser	atg Met	gcc Ala	tgaggggctg	ctggactgac	cgaggggctg	cccagcaaga								967
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Tyr	His	Arg	Leu	Lys 85	Glu	Gly	Ala	Val 90	Pro	Thr	Ile	Phe	Glu	Ser 95	Phe
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Ser	Lys	Leu	Arg 100	Arg	Thr	Thr	Lys	Thr 105	Lys	Gly	His	Ser	Tyr 110	Pro	Pro
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Gly	Pro	Ala	Glu	Val	Ser	Arg	Leu	Arg	Arg	Cys	Arg	Lys	Arg	Cys	Ser
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 Glu Gly Arg Gly Pro Thr Thr Pro Phe Ser Pro Pro Pro Pro Ala Asp
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 Val Thr Cys Phe Pro Val Glu Glu Ala Ser Ala Pro Ala Thr Leu Pro
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 Ala Ser Pro Ala Gly Arg Leu Glu Pro Gly Leu Ser Ser Pro Phe Ser
 165 170 175
 Asp Leu Leu Gly Pro Leu Gly Ala Gln Ala Asp Glu Ala Gly Cys Ser
 180 185 190
 Ala Gln Pro Ser Pro Glu Arg Gln Pro Ser Pro Leu Glu Pro Arg Pro
 195 200 205
 Val Ser Pro Ser Ala Tyr Met Leu Arg Leu Pro Pro Pro Ala Gly Ala
 210 215 220
 Tyr Ile Gln Asn Glu His Ser Tyr Gln Val Gly Ser Ala Leu Leu Trp
 225 230 235 240
 Lys Arg Arg Ala Glu Ala Ala Leu Asp Ala Leu Asp Lys Ala Gln Arg
 245 250 255
 Gln Leu Gln Ala Cys Lys Arg Arg Glu Gln Arg Leu Arg Leu Arg Leu
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 Thr Lys Leu Gln Gln Glu Arg Ala Arg Glu Lys Arg Ala Gln Ala Asp
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Pro Asp Ser Gly Gly Val Ala Lys Thr Met Met Glu Ser Ser Leu Ala	
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Asp Phe Met Gln Glu Val Gly Tyr Gly Phe Cys Ala Ser Ile Glu Glu	
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Cys Arg Asn Ile Ile Val Gln Phe Gly Val Arg Glu Val Thr Ala Ala	
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Gln Val Ala Arg Val Leu Gly Met Met Ala Arg Thr His Ser Gly Leu	
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aca gat ggc att cca tta cag agt att tct gct ccg ggc agt ggg atc	416
Thr Asp Gly Ile Pro Leu Gln Ser Ile Ser Ala Pro Gly Ser Gly Ile	
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Trp Ser Asp Gly Lys Asp Lys Ser Asp Gly Ala Gln Ala His Thr Trp	
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Asn Val Glu Val Leu Ile Asp Val Leu Lys Glu Leu Asn Pro Ser Leu	
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Asn Phe Lys Glu Val Thr Tyr Glu Leu Asp His Pro Gly Phe Gln Ile	
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Arg Asp Ser Lys Gly Leu His Asn Val Val Tyr Gly Ile Gln Arg Gly	
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Leu Gly Met Glu Val Phe Pro Val Asp Leu Ile Tyr Arg Pro Trp Lys	
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His Ala Glu Gly Gln Leu Ser Phe Ile Gln His Ser Leu Ile Asn Pro	
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Ile Leu Lys Ala Pro Pro Glu Asp Asp Asn Arg Glu Ile Ala Thr Trp	
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Gln Tyr Glu Gln Val Lys Gln Leu Phe Ser Phe Pro Ile Lys His Cys	

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Pro	Asp	Met	Leu	Val	Leu	Ala	Leu	Leu	Gln	Ile	Asn	Thr	Ser	Trp	His	
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acc	ttg	cgc	cat	gaa	ctt	atc	tcc	act	ctg	atg	cca	att	ttc	ctt	gga	992
Thr	Leu	Arg	His	Glu	Leu	Ile	Ser	Thr	Leu	Met	Pro	Ile	Phe	Leu	Gly	
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Trp	Tyr	Met	Arg	Gly	Glu	Gln	Tyr	Asp	Gln	Ala	Lys	Leu	Ser	Arg	Ile	
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Thr	Pro	Phe	Ala	Phe	Val	Ile	Asp	Leu	Ala	Ala	Leu	Ala	Ser	Arg	Arg	
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Ala	Gln	Leu	Pro	Pro	Glu	Thr	Leu	Ala	Thr	Met	Leu	Ala	Cys	Leu	Gln	
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Ala	Cys	Ala	Gly	Ser	Val	Ser	Gln	Glu	Leu	Ser	Glu	Thr	Ile	Leu	Thr	
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Pro	Gly	Val	Met	Pro	Lys	Gly	Arg	Pro	Pro	Ser	Ala	Ser	Ser	Leu	Asp	
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Ala	Ile	Ser	Pro	Val	Gln	Ile	Asp	Pro	Leu	Ala	Gly	Met	Thr	Ser	Leu	
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Glu	Glu	Tyr	Arg	Phe	Phe	Pro	Gln	Tyr	Pro	Asp	Lys	Glu	Leu	His	Ile	
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Thr	Ala	Cys	Leu	Phe	Gly	Gly	Ile	Ile	Glu	Lys	Gly	Leu	Val	Thr	Tyr	
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Met	Ala	Leu	Gly	Leu	Ala	Leu	Arg	Tyr	Val	Leu	Glu	Ala	Leu	Arg	Lys	
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Pro	Phe	Gly	Ser	Lys	Met	Tyr	Tyr	Phe	Gly	Ile	Ala	Ala	Leu	Asp	Arg	
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Phe	Lys	Asn	Arg	Leu	Lys	Asp	Tyr	Pro	Gln	Tyr	Cys	Gln	His	Leu	Ala	
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Ser	Ile	Ser	His	Phe	Met	Gln	Phe	Pro	His	His	Leu	Gln	Glu	Tyr	Ile	

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Ile	Thr	Thr	Pro	Gly	Ser	Ile	Ala	Leu	Ala	Gln	Ala	Gln	Ala	Gln	Ala					
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cag	gtt	cca	gca	aaa	gct	cct	ctt	gct	ggg	caa	gtt	agc	act	atg	gta	2576				
Gln	Val	Pro	Ala	Lys	Ala	Pro	Leu	Ala	Gly	Gln	Val	Ser	Thr	Met	Val					
	790				795					800					805					
acc	acc	tca	aca	act	acc	act	gtt	gct	aaa	acg	gtt	acg	gtc	acc	agg	2624				
Thr	Thr	Ser	Thr	Thr	Thr	Thr	Val	Ala	Lys	Thr	Val	Thr	Val	Thr	Arg					
				810					815					820						
cca	act	gga	gtc	agc	ttt	aag	aaa	gat	gtg	cca	cct	tct	att	aat	act	2672				
Pro	Thr	Gly	Val	Ser	Phe	Lys	Lys	Asp	Val	Pro	Pro	Ser	Ile	Asn	Thr					
			825					830					835							
aca	aat	ata	gat	acg	ttg	ctt	gtg	gcc	aca	gat	caa	act	gag	aga	att	2720				
Thr	Asn	Ile	Asp	Thr	Leu	Leu	Val	Ala	Thr	Asp	Gln	Thr	Glu	Arg	Ile					
		840					845					850								
gtg	gag	ccc	cca	gaa	aat	atc	cag	gag	aaa	att	gct	ttt	att	ttc	aat	2768				
Val	Glu	Pro	Pro	Glu	Asn	Ile	Gln	Glu	Lys	Ile	Ala	Phe	Ile	Phe	Asn					
	855					860					865									
aat	ctc	tca	cag	tca	aat	atg	aca	caa	aag	gtt	gaa	gag	cta	aag	gaa	2816				
Asn	Leu	Ser	Gln	Ser	Asn	Met	Thr	Gln	Lys	Val	Glu	Glu	Leu	Lys	Glu					
	870				875					880					885					
acg	gtg	aaa	gaa	gaa	ttt	atg	cct	tgg	gtt	tca	cag	tat	ctg	gtt	atg	2864				
Thr	Val	Lys	Glu	Glu	Phe	Met	Pro	Trp	Val	Ser	Gln	Tyr	Leu	Val	Met					
				890					895					900						
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Lys	Arg	Val	Ser	Ile	Glu	Pro	Asn	Phe	His	Ser	Leu	Tyr	Ser	Asn	Phe					
			905					910					915							
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Leu	Asp	Thr	Leu	Lys	Asn	Pro	Glu	Phe	Asn	Lys	Met	Val	Leu	Asn	Glu					
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acc	tac	aga	aac	att	aaa	gtg	ctc	ctg	acc	tct	gat	aaa	gct	gca	gcc	3008				
Thr	Tyr	Arg	Asn	Ile	Lys	Val	Leu	Leu	Thr	Ser	Asp	Lys	Ala	Ala	Ala					
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	950				955					960					965					
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gtg	aaa	tca	ttg	ctg	cta	gag	gct	tat	gtt	aaa	gga	caa	caa	gaa	ttg	3152				
Val	Lys	Ser	Leu	Leu	Leu	Glu	Ala	Tyr	Val	Lys	Gly	Gln	Gln	Glu	Leu					
			985					990					995							
ctc	tat	gta	gtg	ccc	ttt	gtt	gcc	aaa	gtc	tta	gaa	tct	agc	att		3197				
Leu	Tyr	Val	Val	Pro	Phe	Val	Ala	Lys	Val	Leu	Glu	Ser	Ser	Ile						

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cgt	agt	gtg	gtt	ttt	agg	cca	cca	aac	cct	tgg	aca	atg	gca	att			3242
Arg	Ser	Val	Val	Phe	Arg	Pro	Pro	Asn	Pro	Trp	Thr	Met	Ala	Ile			
		1015					1020					1025					
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Met	Asn	Val	Leu	Ala	Glu	Leu	His	Gln	Glu	His	Asp	Leu	Lys	Leu			
		1030					1035					1040					
aac	ttg	aag	ttt	gaa	atc	gag	gtt	ctc	tgc	aag	aac	ctt	gca	tta			3332
Asn	Leu	Lys	Phe	Glu	Ile	Glu	Val	Leu	Cys	Lys	Asn	Leu	Ala	Leu			
		1045					1050					1055					
gac	atc	aat	gag	cta	aaa	cct	gga	aac	ctc	cta	aag	gat	aaa	gat			3377
Asp	Ile	Asn	Glu	Leu	Lys	Pro	Gly	Asn	Leu	Leu	Lys	Asp	Lys	Asp			
		1060					1065					1070					
cgc	ctg	aag	aat	tta	gat	gag	caa	ctc	tct	gct	cca	aag	aaa	gat			3422
Arg	Leu	Lys	Asn	Leu	Asp	Glu	Gln	Leu	Ser	Ala	Pro	Lys	Lys	Asp			
		1075					1080					1085					
gtc	aag	cag	cca	gaa	gaa	ctc	cct	ccc	atc	aca	acc	aca	aca	act			3467
Val	Lys	Gln	Pro	Glu	Glu	Leu	Pro	Pro	Ile	Thr	Thr	Thr	Thr	Thr			
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Ser	Thr	Thr	Pro	Ala	Thr	Asn	Thr	Thr	Cys	Thr	Ala	Thr	Val	Pro			
		1105					1110					1115					
cca	cag	cca	cag	tac	agc	tac	cac	gac	atc	aat	gtc	tat	tcc	ctt			3557
Pro	Gln	Pro	Gln	Tyr	Ser	Tyr	His	Asp	Ile	Asn	Val	Tyr	Ser	Leu			
		1120					1125					1130					
gcg	ggc	ttg	gca	cca	cac	att	act	cta	aat	cca	aca	att	ccc	ttg			3602
Ala	Gly	Leu	Ala	Pro	His	Ile	Thr	Leu	Asn	Pro	Thr	Ile	Pro	Leu			
		1135					1140					1145					
ttt	cag	gcc	cat	cca	cag	ttg	aag	cag	tgt	gtg	cgt	cag	gca	att			3647
Phe	Gln	Ala	His	Pro	Gln	Leu	Lys	Gln	Cys	Val	Arg	Gln	Ala	Ile			
		1150					1155					1160					
gaa	cgg	gct	gtc	cag	gag	ctg	gtc	cat	cct	gtg	gtg	gat	cga	tca			3692
Glu	Arg	Ala	Val	Gln	Glu	Leu	Val	His	Pro	Val	Val	Asp	Arg	Ser			
		1165					1170					1175					
att	aag	att	gcc	atg	act	act	tgt	gag	caa	ata	gtc	agg	aag	gat			3737
Ile	Lys	Ile	Ala	Met	Thr	Thr	Cys	Glu	Gln	Ile	Val	Arg	Lys	Asp			
		1180					1185					1190					
ttt	gcc	ctg	gat	tcg	gag	gaa	tct	cga	atg	cga	ata	gca	gct	cat			3782
Phe	Ala	Leu	Asp	Ser	Glu	Glu	Ser	Arg	Met	Arg	Ile	Ala	Ala	His			
		1195					1200					1205					
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His	Met	Met	Arg	Asn	Leu	Thr	Ala	Gly	Met	Ala	Met	Ile	Thr	Cys			
		1210					1215					1220					
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Arg	Glu	Pro	Leu	Leu	Met	Ser	Ile	Ser	Thr	Asn	Leu	Lys	Asn	Ser			
		1225					1230					1235					
ttt	gcc	tca	gcc	ctt	cgt	act	gct	tcc	cca	caa	caa	aga	gaa	atg			3917
Phe	Ala	Ser	Ala	Leu	Arg	Thr	Ala	Ser	Pro	Gln	Gln	Arg	Glu	Met			

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Met	Asp	Gln	Ala	Ala	Ala	Gln	Leu	Ala	Gln	Asp	Asn	Cys	Glu	Leu			
1255			1260			1265											
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Ala	Cys	Cys	Phe	Ile	Gln	Lys	Thr	Ala	Val	Glu	Lys	Ala	Gly	Pro			
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Glu	Met	Asp	Lys	Arg	Leu	Ala	Thr	Glu	Phe	Glu	Leu	Arg	Lys	His			
1285			1290			1295											
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Ala	Arg	Gln	Glu	Gly	Arg	Arg	Tyr	Cys	Asp	Pro	Val	Val	Leu	Thr			
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Tyr	Gln	Ala	Glu	Arg	Met	Pro	Glu	Gln	Ile	Arg	Leu	Lys	Val	Gly			
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Asn	Val	Pro	Gly	Phe	Leu	Pro	Thr	Asn	Asp	Leu	Ser	Gln	Pro	Thr			
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1360			1365			1370											
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1375			1380			1385											
cta	cat	gcc	atc	cca	cca	act	ttg	gcc	atg	aac	cct	caa	gct	cag	4367		
Leu	His	Ala	Ile	Pro	Pro	Thr	Leu	Ala	Met	Asn	Pro	Gln	Ala	Gln			
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Ala	Leu	Arg	Ser	Leu	Leu	Glu	Val	Val	Val	Leu	Ser	Arg	Asn	Ser			
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Gly	Arg	Ala	Tyr	Gly	Ser	Pro	Trp	Cys	Asn	Lys	Gln	Ile	Thr	Arg			
1465			1470			1475											
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Cys	Leu	Ile	Glu	Cys	Arg	Asp	Glu	Tyr	Lys	Tyr	Asn	Val	Glu	Ala			

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Val	Glu	Leu	Leu	Ile	Arg	Asn	His	Leu	Val	Asn	Met	Gln	Gln	Tyr	
		1495					1500					1505			
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Asp	Leu	His	Leu	Ala	Gln	Ser	Met	Glu	Asn	Gly	Leu	Asn	Tyr	Met	
		1510					1515					1520			
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Ala	Val	Ala	Phe	Ala	Met	Gln	Leu	Val	Lys	Ile	Leu	Leu	Val	Asp	
		1525					1530					1535			
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Glu	Arg	Ser	Val	Ala	His	Val	Thr	Glu	Ala	Asp	Leu	Phe	His	Thr	
		1540					1545					1550			
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Ile	Glu	Thr	Leu	Met	Arg	Ile	Asn	Ala	His	Ser	Arg	Gly	Asn	Ala	
		1555					1560					1565			
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Pro	Glu	Gly	Leu	Pro	Gln	Leu	Met	Glu	Val	Val	Arg	Ser	Asn	Tyr	
		1570					1575					1580			
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Glu	Ala	Met	Ile	Asp	Arg	Ala	His	Gly	Gly	Pro	Asn	Phe	Met	Met	
		1585					1590					1595			
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His	Ser	Gly	Ile	Ser	Gln	Ala	Ser	Glu	Tyr	Asp	Asp	Pro	Pro	Gly	
		1600					1605					1610			
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		1615					1620					1625			
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Tyr	His	Ser	Ala	Ala	Ala	Gly	Arg	Asp	Ser	Thr	Lys	Ala	Phe	Ser	
		1630					1635					1640			
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		1645					1650					1655			
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		1660					1665					1670			
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Glu	Ile	Ser	Tyr	Arg	Ala	Gln	Ala	Glu	Gln	Gln	His	Asn	Pro	Ala	
		1675					1680					1685			
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Ala	Asn	Pro	Thr	Met	Ile	Arg	Ala	Lys	Cys	Tyr	His	Asn	Leu	Asp	
		1690					1695					1700			
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Ala	Phe	Val	Arg	Leu	Ile	Ala	Leu	Leu	Val	Lys	His	Ser	Gly	Glu	
		1705					1710					1715			
gcc	acc	aac	act	gtc	aca	aag	att	aat	ctg	ctg	aac	aag	gtc	ctt	5357
Ala	Thr	Asn	Thr	Val	Thr	Lys	Ile	Asn	Leu	Leu	Asn	Lys	Val	Leu	

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Gly	Ile	Val	Val	Gly	Val	Leu	Leu	Gln	Asp	His	Asp	Val	Arg	Gln			
		1735					1740					1745					
agt	gaa	ttt	cag	caa	ctt	ccc	tac	cat	cga	att	ttt	atc	atg	ctt			5447
Ser	Glu	Phe	Gln	Gln	Leu	Pro	Tyr	His	Arg	Ile	Phe	Ile	Met	Leu			
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Leu	Leu	Glu	Leu	Asn	Ala	Pro	Glu	His	Val	Leu	Glu	Thr	Ile	Asn			
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Phe	Gln	Thr	Leu	Thr	Ala	Phe	Cys	Asn	Thr	Phe	His	Ile	Leu	Arg			
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Pro	Thr	Lys	Ala	Pro	Gly	Phe	Val	Tyr	Ala	Trp	Leu	Glu	Leu	Ile			
		1795					1800					1805					
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Ser	His	Arg	Ile	Phe	Ile	Ala	Arg	Met	Leu	Ala	His	Thr	Pro	Gln			
		1810					1815					1820					
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Gln	Lys	Gly	Trp	Pro	Met	Tyr	Ala	Gln	Leu	Leu	Ile	Asp	Leu	Phe			
		1825					1830					1835					
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Lys	Tyr	Leu	Ala	Pro	Phe	Leu	Arg	Asn	Val	Glu	Leu	Thr	Lys	Pro			
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Met	Gln	Ile	Leu	Tyr	Lys	Gly	Thr	Leu	Arg	Val	Leu	Leu	Val	Leu			
		1855					1860					1865					
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Leu	His	Asp	Phe	Pro	Glu	Phe	Leu	Cys	Asp	Tyr	His	Tyr	Gly	Phe			
		1870					1875					1880					
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Cys	Asp	Val	Ile	Pro	Pro	Asn	Cys	Ile	Gln	Leu	Arg	Asn	Leu	Ile			
		1885					1890					1895					
ctg	agt	gcc	ttt	cca	aga	aac	atg	agg	ctc	ccc	gac	cca	ttc	act			5897
Leu	Ser	Ala	Phe	Pro	Arg	Asn	Met	Arg	Leu	Pro	Asp	Pro	Phe	Thr			
		1900					1905					1910					
cct	aat	cta	aag	gtg	gac	atg	ttg	agt	gaa	att	aac	att	gct	ccc			5942
Pro	Asn	Leu	Lys	Val	Asp	Met	Leu	Ser	Glu	Ile	Asn	Ile	Ala	Pro			
		1915					1920					1925					
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Arg	Ile	Leu	Thr	Asn	Phe	Thr	Gly	Val	Met	Pro	Pro	Gln	Phe	Lys			
		1930					1935					1940					
aag	gat	ttg	gat	tcc	tat	ctt	aaa	act	cga	tca	cca	gtc	act	ttc			6032
Lys	Asp	Leu	Asp	Ser	Tyr	Leu	Lys	Thr	Arg	Ser	Pro	Val	Thr	Phe			
		1945					1950					1955					
ctg	tct	gat	ctg	cgc	agc	aac	cta	cag	gta	tcc	aat	gaa	cct	ggg			6077
Leu	Ser	Asp	Leu	Arg	Ser	Asn	Leu	Gln	Val	Ser	Asn	Glu	Pro	Gly			

1960							1965				1970							
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Asn	Arg	Tyr	Asn	Leu	Gln	Leu	Ile	Asn	Ala	Leu	Val	Leu	Tyr	Val				
1975							1980				1985							
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Gly	Thr	Gln	Ala	Ile	Ala	His	Ile	His	Asn	Lys	Gly	Ser	Thr	Pro				
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Lys Glu Leu Ser Ala Lys His Gln Ser Glu Met Glu Asp Leu Gln Asn
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Gln Leu
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Ala Tyr Ala Leu Leu Gln Glu Gln Thr Gly Gly Ile Ile Asp Ala Glu
1 5 10 15

Arg Glu Ala Lys
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<210> 288
<211> 20
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<213> Homo sapiens

<400> 288

Ala Gln Glu Gln Leu Gln Ala Glu Val Leu Arg Tyr Lys Ala Lys Ile
1 5 10 15

Glu Asp Leu Glu
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<210> 289
<211> 20
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<213> Homo sapiens

<400> 289

Ala Thr Leu Ala Gln Lys Gly Gln Ile Glu Lys Gln Glu Ala Glu Asn
1 5 10 15

His Arg Leu Gln
20

<210> 290
<211> 20
<212> PRT
<213> Homo sapiens

<400> 290

Gln Glu Leu Gln Asp Ala Arg Asp Gln Asn Glu Leu Leu Glu Phe Arg
1 5 10 15

Asn Leu Glu Leu
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<210> 291
<211> 50
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<213> Homo sapiens

<400> 291

Ala Glu Glu Ser Glu Leu Arg Phe Arg Gln Leu Thr Lys Glu Tyr Gln
1 5 10 15

Ala Leu Gln Arg Ala Tyr Ala Leu Leu Gln Glu Gln Thr Gly Gly Ile
20 25 30

Ile Asp Ala Glu Arg Glu Ala Lys Ala Gln Glu Gln Leu Gln Ala Glu
35 40 45

Val Leu
50

<210> 292
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<213> Homo sapiens

<400> 292

Arg Tyr Lys Ala Lys Ile Glu Asp Leu Glu Ala Thr Leu Ala Gln Lys
1 5 10 15

Gly Gln Ile Glu Lys Gln Glu Ala Glu Asn His Arg Leu Gln Gln Glu
20 25 30

Leu Gln Asp Ala Arg Asp Gln Asn Glu Leu Leu Glu Phe Arg Asn Leu
35 40 45

Glu Leu
50

<210> 293
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<400> 293

Met Glu Glu Ala Asn Ile Gln Pro Asn Arg Val Thr Tyr Gln Arg Leu
1 5 10 15

Ile Ala Ser Tyr
20

<210> 294
<211> 20
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<213> Homo sapiens

<400> 294

Met Glu Asn Ala Glu Asn Ile Leu Thr Val Met Arg Asp Ala Gly Ile
1 5 10 15

Glu Pro Gly Pro
20

<210> 295
<211> 20
<212> PRT
<213> Homo sapiens

<400> 295

Gln Thr Leu Glu Lys Val Glu Lys Phe Glu Leu His Leu Met Asp Arg
1 5 10 15

Asp Leu Leu Gln
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<210> 296
<211> 20
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<213> Homo sapiens

<400> 296

Val Phe Gly Ser Phe Phe Leu Gln His Cys Val Thr Met Asn Thr Pro
1 5 10 15

Val Glu Lys Leu
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<210> 297

<211> 20

<212> PRT

<213> Homo sapiens

<400> 297

Thr Asp Tyr Cys Lys Lys Leu Lys Glu Val Gln Met His Ser Phe Pro
1 5 10 15

Leu Gln Phe Thr
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<210> 298

<211> 50

<212> PRT

<213> Homo sapiens

<400> 298

Met Glu Asn Ala Glu Asn Ile Leu Thr Val Met Arg Asp Ala Gly Ile
1 5 10 15

Glu Pro Gly Pro Asp Thr Tyr Leu Ala Leu Leu Asn Ala Tyr Ala Glu
20 25 30

Lys Gly Asp Ile Asp His Val Lys Gln Thr Leu Glu Lys Val Glu Lys
35 40 45

Phe Glu
50

<210> 299

<211> 50

<212> PRT

<213> Homo sapiens

<400> 299

Ile Ile Phe Ser Phe Ser Lys Ala Gly Tyr Leu Ser Met Ser Gln Lys
1 5 10 15

Phe Trp Lys Lys Phe Thr Cys Glu Arg Arg Tyr Ile Pro Asp Ala Met
20 25 30

Asn Leu Ile Leu Leu Leu Val Thr Glu Lys Leu Glu Asp Val Ala Leu
Page 127

35

40

45

Gln Ile
50

<210> 300
<211> 20
<212> PRT
<213> Homo sapiens

<400> 300

Leu Thr Arg Val Glu Val Thr Glu Phe Glu Asp Ile Lys Ser Gly Tyr
1 5 10 15

Arg Ile Asp Phe
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<210> 301
<211> 20
<212> PRT
<213> Homo sapiens

<400> 301

Tyr Phe Asp Glu Asn Pro Tyr Phe Glu Asn Lys Val Leu Ser Lys Glu
1 5 10 15

Phe His Leu Asn
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<210> 302
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<213> Homo sapiens

<400> 302

Thr Lys Arg Ser Ser Gln Thr Gln Asn Lys Ala Ser Arg Lys Arg Gln
1 5 10 15

His Glu Glu Pro
20

<210> 303
<211> 20
<212> PRT
<213> Homo sapiens

<400> 303

Glu Ser Phe Phe Thr Trp Phe Thr Asp His Ser Asp Ala Gly Ala Asp
1 5 10 15

Glu Leu Gly Glu

20

<210> 304
<211> 20
<212> PRT
<213> Homo sapiens

<400> 304

Val Ile Lys Asp Asp Ile Trp Pro Asn Pro Leu Gln Tyr Tyr Leu Val
1 5 10 15

Pro Asp Met Asp
20

<210> 305
<211> 50
<212> PRT
<213> Homo sapiens

<400> 305

Leu Thr Arg Val Glu Val Thr Glu Phe Glu Asp Ile Lys Ser Gly Tyr
1 5 10 15

Arg Ile Asp Phe Tyr Phe Asp Glu Asn Pro Tyr Phe Glu Asn Lys Val
20 25 30

Leu Ser Lys Glu Phe His Leu Asn Glu Ser Gly Asp Pro Ser Ser Lys
35 40 45

Ser Thr
50

<210> 306
<211> 50
<212> PRT
<213> Homo sapiens

<400> 306

Glu Ile Lys Trp Lys Ser Gly Lys Asp Leu Thr Lys Arg Ser Ser Gln
1 5 10 15

Thr Gln Asn Lys Ala Ser Arg Lys Arg Gln His Glu Glu Pro Glu Ser
20 25 30

Phe Phe Thr Trp Phe Thr Asp His Ser Asp Ala Gly Ala Asp Glu Leu
35 40 45

Gly Glu
50

<210> 307
<211> 20
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<213> Homo sapiens

<400> 307

Gly Val Gly Ser Lys His Leu Met Glu Gly Gln Lys Ile Ile Thr Leu
1 5 10 15

Asp Thr Ala Thr
20

<210> 308
<211> 20
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<213> Homo sapiens

<400> 308

Glu Ile Glu Gly Leu Ser Thr Gly Cys Lys Val Tyr Ala Asn Ile Gly
1 5 10 15

Glu Asp Thr Tyr
20

<210> 309
<211> 20
<212> PRT
<213> Homo sapiens

<400> 309

Asp Ile Val Ile Pro Val Lys Asp Asp Pro Asp Glu Gly Glu Ala Arg
1 5 10 15

Leu Glu Asn Glu
20

<210> 310
<211> 20
<212> PRT
<213> Homo sapiens

<400> 310

His Glu Ile His His Thr Gly Glu Arg Arg Tyr Gln Cys Leu Ala Cys
1 5 10 15

Gly Lys Ser Phe
20

<210> 311
<211> 20
<212> PRT
<213> Homo sapiens

<400> 311

Ile Asn Tyr Gln Phe Met Ser Ser His Ile Lys Ser Val His Ser Gln
1 5 10 15

Asp Pro Ser Gly
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<210> 312

<211> 50

<212> PRT

<213> Homo sapiens

<400> 312

His Asp Asp His Tyr Glu Leu Ile Val Asp Gly Arg Val Tyr Tyr Ile
1 5 10 15

Cys Ile Val Cys Lys Arg Ser Tyr Val Cys Leu Thr Ser Leu Arg Arg
20 25 30

His Phe Asn Ile His Ser Trp Glu Lys Lys Tyr Pro Cys Arg Tyr Cys
35 40 45

Glu Lys
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<210> 313

<211> 50

<212> PRT

<213> Homo sapiens

<400> 313

Tyr Gln Cys Leu Ala Cys Gly Lys Ser Phe Ile Asn Tyr Gln Phe Met
1 5 10 15

Ser Ser His Ile Lys Ser Val His Ser Gln Asp Pro Ser Gly Asp Ser
20 25 30

Lys Leu Tyr Arg Leu His Pro Cys Arg Ser Leu Gln Ile Arg Gln Tyr
35 40 45

Ala Tyr
50

<210> 314

<211> 20

<212> PRT

<213> Homo sapiens

<400> 314

Leu Ser Leu Lys Glu Asn Ser Arg Leu Glu Asn Glu Leu Leu Glu Asn
1 5 10 15

Ala Glu Lys Leu
20

<210> 315
<211> 20
<212> PRT
<213> Homo sapiens

<400> 315

Ala Glu Tyr Glu Asn Leu Thr Asn Lys Leu Gln Arg Asn Leu Glu Asn
1 5 10 15

Val Leu Ala Glu
20

<210> 316
<211> 20
<212> PRT
<213> Homo sapiens

<400> 316

Lys Phe Gly Asp Leu Asp Pro Ser Ser Ala Glu Phe Phe Leu Gln Glu
1 5 10 15

Glu Arg Leu Thr
20

<210> 317
<211> 20
<212> PRT
<213> Homo sapiens

<400> 317

Gln Met Arg Asn Glu Tyr Glu Arg Gln Cys Arg Val Leu Gln Asp Gln
1 5 10 15

Val Asp Glu Leu
20

<210> 318
<211> 20
<212> PRT
<213> Homo sapiens

<400> 318

Gln Ser Glu Leu Glu Glu Tyr Arg Ala Gln Gly Arg Val Leu Arg Leu
1 5 10 15

Pro Leu Lys Asn
20

<210> 319
<211> 50
<212> PRT
<213> Homo sapiens

<400> 319

Gln Val Val Arg Glu Lys Glu Lys Leu Arg Ser Asp Leu Asp Lys Ala
1 5 10 15

Glu Lys Leu Lys Ser Leu Met Ala Ser Glu Val Asp Asp His His Ala
20 25 30

Ala Ile Glu Arg Arg Asn Glu Tyr Asn Leu Arg Lys Leu Asp Gly Glu
35 40 45

Tyr Lys
50

<210> 320
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<212> PRT
<213> Homo sapiens

<400> 320

Ser Glu Glu Cys Asn Pro Leu Asn Met Ser Ile Glu Ala Glu Leu Val
1 5 10 15

Ile Glu Gln Met Lys Glu Gln His His Arg Asp Ile Cys Cys Leu Arg
20 25 30

Leu Glu Leu Glu Asp Lys Val Arg His Tyr Glu Lys Gln Leu Asp Glu
35 40 45

Thr Val
50

<210> 321
<211> 20
<212> PRT
<213> Homo sapiens

<400> 321

Ile Leu Val Glu Leu Arg Asp Asp Ile Arg Asp Gln Val Lys Glu Met
1 5 10 15

Ser Leu Ile Arg
20

<210> 322
<211> 20
<212> PRT
<213> Homo sapiens

<400> 322

Asn Thr Ile Met Glu Cys Gln Val Cys Gly Phe His Glu Gln Arg Ser
1 5 10 15

His Cys Ser Pro
20

<210> 323
<211> 20
<212> PRT
<213> Homo sapiens

<400> 323

Gly Pro Cys Pro Pro Gly Leu Gln Gly Asn Gly Thr His Cys Ser Asp
1 5 10 15

Ile Asn Glu Cys
20

<210> 324
<211> 20
<212> PRT
<213> Homo sapiens

<400> 324

Ala His Ala Asp Pro Cys Phe Pro Gly Ser Ser Cys Ile Asn Thr Met
1 5 10 15

Pro Gly Phe His
20

<210> 325
<211> 20
<212> PRT
<213> Homo sapiens

<400> 325

Cys Glu Ala Cys Pro Arg Gly Tyr Lys Gly Thr Gln Val Ser Gly Val
1 5 10 15

Gly Ile Asp Tyr
20

<210> 326
<211> 50
<212> PRT

<213> Homo sapiens

<400> 326

Ala Val Thr Asn Ala Leu His Ser Ile Leu Gly Glu Gln Thr Lys Ala
1 5 10 15

Leu Val Thr Gln Leu Thr Leu Phe Asn Gln Ile Leu Val Glu Leu Arg
20 25 30

Asp Asp Ile Arg Asp Gln Val Lys Glu Met Ser Leu Ile Arg Asn Thr
35 40 45

Ile Met
50

<210> 327

<211> 50

<212> PRT

<213> Homo sapiens

<400> 327

Ile Asn Glu Cys Ala His Ala Asp Pro Cys Phe Pro Gly Ser Ser Cys
1 5 10 15

Ile Asn Thr Met Pro Gly Phe His Cys Glu Ala Cys Pro Arg Gly Tyr
20 25 30

Lys Gly Thr Gln Val Ser Gly Val Gly Ile Asp Tyr Ala Arg Ala Ser
35 40 45

Lys Gln
50

<210> 328

<211> 20

<212> PRT

<213> Homo sapiens

<400> 328

Met Ser Glu Pro Ile Arg Val Leu Val Thr Gly Ala Ala Gly Gln Ile
1 5 10 15

Ala Tyr Ser Leu
20

<210> 329

<211> 20

<212> PRT

<213> Homo sapiens

<400> 329

Ala Phe Lys Asp Leu Asp Val Ala Ile Leu Val Gly Ser Met Pro Arg
 1 5 10 15

Arg Glu Gly Met
 20

<210> 330
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 330

Val Ile Ile Trp Gly Asn His Ser Ser Thr Gln Tyr Pro Asp Val Asn
 1 5 10 15

His Ala Lys Val
 20

<210> 331
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 <213> Homo sapiens

<400> 331

Val Ile Ile Trp Gly Asn His Ser Ser Thr Gln Tyr Pro Asp Val Asn
 1 5 10 15

His Ala Lys Val
 20

<210> 332
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 <213> Homo sapiens

<400> 332

Ser Ser Ala Met Ser Ala Ala Lys Ala Ile Cys Asp His Val Arg Asp
 1 5 10 15

Ile Trp Phe Gly
 20

<210> 333
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 333

Lys Lys Ser Val Lys Val Ile Val Val Gly Asn Pro Ala Asn Thr Asn
 1 5 10 15

Cys Leu Thr Ala Ser Lys Ser Ala Pro Ser Ile Pro Lys Glu Asn Phe
20 25 30

Ser Cys Leu Thr Arg Leu Asp His Asn Arg Ala Lys Ala Gln Ile Ala
35 40 45

Leu Lys
50

<210> 334
<211> 50
<212> PRT
<213> Homo sapiens

<400> 334

Gln Tyr Pro Asp Val Asn His Ala Lys Val Lys Leu Gln Gly Lys Glu
1 5 10 15

Val Gly Val Tyr Glu Ala Leu Lys Asp Asp Ser Trp Leu Lys Gly Glu
20 25 30

Phe Val Thr Thr Val Gln Gln Arg Gly Ala Ala Val Ile Lys Ala Arg
35 40 45

Lys Leu
50

<210> 335
<211> 20
<212> PRT
<213> Homo sapiens

<400> 335

Glu Ser Val Val Asn Ser Val Val Ser Leu Leu Leu Ile Leu Glu Pro
1 5 10 15

Asp Lys Gln Glu
20

<210> 336
<211> 20
<212> PRT
<213> Homo sapiens

<400> 336

Ala Leu Ile Glu Ser Leu Cys Glu Lys Leu Val Lys Phe Arg Glu Gly
1 5 10 15

Glu Arg Pro Ser
20

<210> 337
<211> 20
<212> PRT
<213> Homo sapiens

<400> 337

Leu Thr Ile Phe Val Ser Ala Lys Leu Ala Ser Tyr Val Lys Phe Tyr
1 5 10 15

Gln Asn Asn Lys
20

<210> 338
<211> 20
<212> PRT
<213> Homo sapiens

<400> 338

Asp Phe Ile Asp Ser Leu Gly Leu Leu His Glu Gln Asn Met Ala Lys
1 5 10 15

Met Arg Leu Leu
20

<210> 339
<211> 20
<212> PRT
<213> Homo sapiens

<400> 339

Leu Gln Ile Gly Ala Asp Asp Val Glu Ala Phe Val Ile Asp Ala Val
1 5 10 15

Arg Thr Lys Met
20

<210> 340
<211> 50
<212> PRT
<213> Homo sapiens

<400> 340

Met Ser Val Pro Ala Phe Ile Asp Ile Ser Glu Glu Asp Gln Ala Ala
1 5 10 15

Glu Leu Arg Ala Tyr Leu Lys Ser Lys Gly Ala Glu Ile Ser Glu Glu
20 25 30

Asn Ser Glu Gly Gly Leu His Val Asp Leu Ala Gln Ile Ile Glu Ala
35 40 45

Cys Asp
50

<210> 341
<211> 50
<212> PRT
<213> Homo sapiens
<400> 341

Leu Gln Ile Gly Ala Asp Asp Val Glu Ala Phe Val Ile Asp Ala Val
1 5 10 15

Arg Thr Lys Met Val Tyr Cys Lys Ile Asp Gln Thr Gln Arg Lys Val
20 25 30

Val Val Ser His Ser Thr His Arg Thr Phe Gly Lys Gln Arg Trp Gln
35 40 45

Gln Leu
50

<210> 342
<211> 20
<212> PRT
<213> Homo sapiens
<400> 342

Arg Gln Phe Arg Arg Leu Phe Ala Gln Leu Ala Gly Asp Asp Met Glu
1 5 10 15

Val Ser Ala Thr
20

<210> 343
<211> 20
<212> PRT
<213> Homo sapiens
<400> 343

Met Asn Ile Leu Asn Lys Val Val Thr Arg His Pro Asp Leu Lys Thr
1 5 10 15

Asp Gly Phe Gly
20

<210> 344
<211> 20
<212> PRT
<213> Homo sapiens

<400> 344

Thr Cys Arg Ser Met Val Ala Val Met Asp Ser Asp Thr Thr Gly Lys
1 5 10 15

Leu Gly Phe Glu
20

<210> 345

<211> 20

<212> PRT

<213> Homo sapiens

<400> 345

Phe Asp Thr Asp Arg Ser Gly Thr Ile Cys Ser Ser Glu Leu Pro Gly
1 5 10 15

Ala Phe Glu Ala
20

<210> 346

<211> 20

<212> PRT

<213> Homo sapiens

<400> 346

Ala Gly Phe His Leu Asn Glu His Leu Tyr Asn Met Ile Ile Arg Arg
1 5 10 15

Tyr Ser Asp Glu
20

<210> 347

<211> 50

<212> PRT

<213> Homo sapiens

<400> 347

Glu Ala Ala Gly Phe His Leu Asn Glu His Leu Tyr Asn Met Ile Ile
1 5 10 15

Arg Arg Tyr Ser Asp Glu Ser Gly Asn Met Asp Phe Asp Asn Phe Ile
20 25 30

Ser Cys Leu Val Arg Leu Asp Ala Met Phe Arg Ala Phe Lys Ser Leu
35 40 45

Asp Lys
50

<210> 348

<211> 50
<212> PRT
<213> Homo sapiens

<400> 348

Met Asn Ile Leu Asn Lys Val Val Thr Arg His Pro Asp Leu Lys Thr
1 5 10 15

Asp Gly Phe Gly Ile Asp Thr Cys Arg Ser Met Val Ala Val Met Asp
20 25 30

Ser Asp Thr Thr Gly Lys Leu Gly Phe Glu Glu Phe Lys Tyr Leu Trp
35 40 45

Asn Asn
50

<210> 349
<211> 20
<212> PRT
<213> Homo sapiens

<400> 349

Glu Arg Ala Pro Ala Gln Asn Pro Glu Leu Thr Pro Gly Pro Ala Pro
1 5 10 15

Ala Gly Pro Thr
20

<210> 350
<211> 20
<212> PRT
<213> Homo sapiens

<400> 350

Pro Ala Pro Glu Thr Asn Ala Pro Asn His Pro Ser Pro Ala Glu Tyr
1 5 10 15

Val Glu Val Leu
20

<210> 351
<211> 20
<212> PRT
<213> Homo sapiens

<400> 351

Gln Glu Leu Gln Arg Leu Glu Ser Arg Leu Gln Pro Phe Leu Gln Arg
1 5 10 15

Tyr Tyr Glu Val

20

<210> 352
<211> 20
<212> PRT
<213> Homo sapiens

<400> 352

Glu Ser Ser Ala Glu Gly Ala Pro Pro Pro Gly Pro Ala Pro Pro Pro
1 5 10 15

Ala Thr Ser His
20

<210> 353
<211> 20
<212> PRT
<213> Homo sapiens

<400> 353

Pro Arg Val Ile Arg Ile Ser His Gln Ser Val Glu Pro Val Val Met
1 5 10 15

Met His Met Asn
20

<210> 354
<211> 50
<212> PRT
<213> Homo sapiens

<400> 354

Glu Arg Ala Pro Ala Gln Asn Pro Glu Leu Thr Pro Gly Pro Ala Pro
1 5 10 15

Ala Gly Pro Thr Pro Ala Pro Glu Thr Asn Ala Pro Asn His Pro Ser
20 25 30

Pro Ala Glu Tyr Val Glu Val Leu Gln Glu Leu Gln Arg Leu Glu Ser
35 40 45

Arg Leu
50

<210> 355
<211> 50
<212> PRT
<213> Homo sapiens

<400> 355

Leu Gly Ala Ala Ala Thr Thr Asp Tyr Asn Asn Asn His Glu Gly Arg
Page 142

<400> 359

Asp Ile Lys Asn Gly Gln Ala Leu Leu Ala Leu Asp Lys Gln Trp His
1 5 10 15

Leu Gly Cys Phe
20

<210> 360

<211> 50

<212> PRT

<213> Homo sapiens

<400> 360

Gly Lys Thr Tyr His Pro Asn Cys Phe Ala Cys Thr Ile Cys Lys Arg
1 5 10 15

Pro Phe Pro Pro Gly Asp Arg Val Thr Phe Asn Gly Arg Asp Cys Leu
20 25 30

Cys Gln Leu Cys Ala Gln Pro Met Ser Ser Ser Pro Lys Glu Thr Thr
35 40 45

Phe Ser
50

<210> 361

<211> 50

<212> PRT

<213> Homo sapiens

<400> 361

Arg Asp Cys Leu Cys Gln Leu Cys Ala Gln Pro Met Ser Ser Ser Pro
1 5 10 15

Lys Glu Thr Thr Phe Ser Ser Asn Cys Ala Gly Cys Gly Arg Asp Ile
20 25 30

Lys Asn Gly Gln Ala Leu Leu Ala Leu Asp Lys Gln Trp His Leu Gly
35 40 45

Cys Phe
50

<210> 362

<211> 20

<212> PRT

<213> Homo sapiens

<400> 362

Thr Thr Gln His Ser Ser Thr Leu Ser Thr Gln Gln Asn Thr Leu Ser
1 5 10 15

Ser Ser Thr Ser
20

<210> 363
<211> 20
<212> PRT
<213> Homo sapiens

<400> 363

His Ser Ser Ser Ser Thr Phe Ser Thr Thr Ser Ser Thr Val Ser Ala
1 5 10 15

Pro Pro Pro Val
20

<210> 364
<211> 20
<212> PRT
<213> Homo sapiens

<400> 364

Val Ser Val Ser Ser Ser Leu Asn Ser Gly Ser Ser Leu Gly Leu Ser
1 5 10 15

Leu Gly Ser Asn
20

<210> 365
<211> 20
<212> PRT
<213> Homo sapiens

<400> 365

Asn Leu Pro Pro Gly Val Pro Pro Leu Leu Pro Asn Pro Tyr Ile Met
1 5 10 15

Ala Pro Gly Leu
20

<210> 366
<211> 20
<212> PRT
<213> Homo sapiens

<400> 366

Leu His Ala Tyr Pro Pro Gln Val Tyr Gly Tyr Asp Asp Leu Gln Met
1 5 10 15

Leu Gln Thr Arg
20

<210> 367
<211> 50
<212> PRT
<213> Homo sapiens

<400> 367

Thr Ser Val Glu Ser Glu Ala Asn Leu His Ser Ser Ser Ser Thr Phe
1 5 10 15

Ser Thr Thr Ser Ser Thr Val Ser Ala Pro Pro Pro Val Val Ser Val
20 25 30

Ser Ser Ser Leu Asn Ser Gly Ser Ser Leu Gly Leu Ser Leu Gly Ser
35 40 45

Asn Ser
50

<210> 368
<211> 50
<212> PRT
<213> Homo sapiens

<400> 368

Gly Leu Leu His Ala Tyr Pro Pro Gln Val Tyr Gly Tyr Asp Asp Leu
1 5 10 15

Gln Met Leu Gln Thr Arg Phe Pro Leu Asp Tyr Tyr Ser Ile Pro Phe
20 25 30

Pro Thr Pro Thr Thr Pro Leu Thr Gly Arg Asp Gly Ser Leu Ala Ser
35 40 45

Asn Pro
50

<210> 369
<211> 20
<212> PRT
<213> Homo sapiens

<400> 369

Pro Glu Pro Ala Glu Leu Ser Ser Gly Glu Thr Glu Glu Leu Gln Arg
1 5 10 15

Ile Lys Trp His
20

<210> 370
<211> 20
<212> PRT
<213> Homo sapiens

<400> 370

Lys Glu Lys Glu Leu Cys Ile Gly Arg Lys Lys Phe Asn Met Asp Pro
1 5 10 15

Ala Lys Gly Ile
20

<210> 371
<211> 20
<212> PRT
<213> Homo sapiens

<400> 371

Ile Asn Leu Gln Val Leu Gln Ala Phe Val Asp Cys His Glu Phe Ala
1 5 10 15

Asn Leu Asn Leu
20

<210> 372
<211> 20
<212> PRT
<213> Homo sapiens

<400> 372

Ser Thr Asp Thr Cys Tyr Val Leu Ser Phe Ser Ile Ile Met Leu Asn
1 5 10 15

Thr Ser Leu His
20

<210> 373
<211> 20
<212> PRT
<213> Homo sapiens

<400> 373

Asp Arg Met Met Glu Ala Phe Ala Thr Arg Tyr Cys Leu Cys Asn Pro
1 5 10 15

Gly Val Phe Gln
20

<210> 374
<211> 50
<212> PRT

<213> Homo sapiens

<400> 374

Lys Phe Asn Met Asp Pro Ala Lys Gly Ile Gln Tyr Phe Ile Glu His
1 5 10 15

Lys Leu Leu Thr Pro Asp Val Gln Asp Ile Ala Arg Phe Leu Tyr Lys
20 25 30

Gly Glu Gly Leu Asn Lys Thr Ala Ile Gly Thr Tyr Leu Gly Glu Arg
35 40 45

Asp Pro
50

<210> 375

<211> 50

<212> PRT

<213> Homo sapiens

<400> 375

Val Asp Cys His Glu Phe Ala Asn Leu Asn Leu Val Gln Ala Leu Arg
1 5 10 15

Gln Phe Leu Trp Ser Phe Arg Leu Pro Gly Glu Ala Gln Lys Ile Asp
20 25 30

Arg Met Met Glu Ala Phe Ala Thr Arg Tyr Cys Leu Cys Asn Pro Gly
35 40 45

Val Phe
50

<210> 376

<211> 20

<212> PRT

<213> Homo sapiens

<400> 376

Arg Pro Lys Tyr Ala Gly Leu Thr Phe Pro Lys Leu Phe Pro Asp Ser
1 5 10 15

Leu Phe Pro Ala
20

<210> 377

<211> 20

<212> PRT

<213> Homo sapiens

<400> 377

Asp Ser Glu His Asn Lys Leu Lys Ala Ser Gln Ala Arg Asp Leu Leu
1 5 10 15

Ser Lys Met Leu
20

<210> 378
<211> 20
<212> PRT
<213> Homo sapiens

<400> 378

Val Asn Ser Ser Glu Ser Leu Pro Pro Ser Ser Ser Val Asn Asp Ile
1 5 10 15

Ser Ser Met Ser
20

<210> 379
<211> 20
<212> PRT
<213> Homo sapiens

<400> 379

Thr Asp Gln Thr Leu Ala Ser Asp Thr Asp Ser Ser Leu Glu Ala Ser
1 5 10 15

Ala Gly Pro Leu
20

<210> 380
<211> 20
<212> PRT
<213> Homo sapiens

<400> 380

Arg Asn Tyr Val Glu Asn Arg Pro Lys Tyr Ala Gly Leu Thr Phe Pro
1 5 10 15

Lys Leu Phe Pro
20

<210> 381
<211> 50
<212> PRT
<213> Homo sapiens

<400> 381

Val Trp Tyr Asp Pro Ala Glu Val Glu Ala Pro Pro Pro Gln Ile Tyr
1 5 10 15

Asp Lys Gln Leu Asp Glu Arg Glu His Thr Ile Glu Glu Trp Lys Glu
20 25 30

Leu Ile Tyr Lys Glu Val Met Asn Ser Glu Glu Lys Thr Lys Asn Gly
35 40 45

Val Val
50

<210> 382
<211> 50
<212> PRT
<213> Homo sapiens

<400> 382

Lys Leu Phe Pro Asp Ser Leu Phe Pro Ala Asp Ser Glu His Asn Lys
1 5 10 15

Leu Lys Ala Ser Gln Ala Arg Asp Leu Leu Ser Lys Met Leu Val Ile
20 25 30

Asp Pro Ala Lys Arg Ile Ser Val Asp Asp Ala Leu Gln His Pro Tyr
35 40 45

Ile Asn
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<210> 383
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<400> 383

Ala Ala Val Val Glu Ala Arg Ala Gln Ala Ser Ala Ala Gly Ile Leu
1 5 10 15

Glu Glu Asp Leu
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<211> 20
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<400> 384

Arg Thr Ala Arg Ser Ala Leu Lys Leu Lys Asn Glu Glu Val Glu Ser
1 5 10 15

Glu Arg Glu Arg
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<400> 385

Ala Gln Ala Leu Gln Glu Gln Gly Glu Leu Lys Val Ala Gln Gly Lys
1 5 10 15

Ala Leu Gln Glu
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<213> Homo sapiens

<400> 386

Leu Glu Leu Glu Glu Asn His His Lys Met Glu Cys Gln Gln Lys Leu
1 5 10 15

Ile Lys Glu Leu
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<400> 387

Ala Gln Gly Lys Ala Leu Gln Glu Asn Leu Ala Leu Leu Thr Gln Thr
1 5 10 15

Leu Ala Glu Arg
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<400> 388

Gln Lys Leu Thr Val Gln Arg Glu Gln Ile Arg Glu Leu Glu Lys Asp
1 5 10 15

Arg Glu Thr Gln Arg Asn Val Leu Glu His Gln Leu Leu Glu Leu Glu
20 25 30

Lys Lys Asp Gln Met Ile Glu Ser Gln Arg Gly Gln Val Gln Asp Leu
35 40 45

Lys Lys
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<400> 389

Arg Gly Gln Ile Gln Glu Leu Glu Lys Gln Arg Glu Met Gln Lys Ala
1 5 10 15

Ala Leu Glu Leu Leu Ser Leu Asp Leu Lys Lys Arg Asn Gln Glu Val
20 25 30

Asp Leu Gln Gln Glu Gln Ile Gln Glu Leu Glu Lys Cys Arg Ser Val
35 40 45

Leu Glu
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<400> 390

Val Thr Arg Leu Ala Lys Glu Val Ala Lys Gln Cys Thr Asp Lys Arg
1 5 10 15

Ile Arg Thr Asn
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<213> Homo sapiens

<400> 391

Leu Leu Gln Val Cys Glu Arg Ile Pro Thr Ile Ser Thr Gln Leu Lys
1 5 10 15

Ile Leu Ser Thr
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<213> Homo sapiens

<400> 392

Val Lys Ala Thr Met Leu Gly Arg Thr Asn Ile Ser Asp Glu Glu Ser
1 5 10 15

Glu Gln Ala Thr
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<213> Homo sapiens

<400> 393

Glu Met Leu Val His Asn Ala Gln Asn Leu Met Gln Ser Val Lys Glu
1 5 10 15

Thr Val Arg Glu
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<213> Homo sapiens

<400> 394

Lys Ile Arg Thr Asp Ala Gly Phe Thr Leu Arg Trp Val Arg Lys Thr
1 5 10 15

Pro Trp Tyr Gln
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<211> 50

<212> PRT

<213> Homo sapiens

<400> 395

Met Ser Arg Leu Val Arg Gly Gly Ser Gly Thr Lys Arg Ala Leu Ile
1 5 10 15

Gln Cys Ala Lys Asp Ile Ala Lys Ala Ser Asp Glu Val Thr Arg Leu
20 25 30

Ala Lys Glu Val Ala Lys Gln Cys Thr Asp Lys Arg Ile Arg Thr Asn
35 40 45

Leu Leu
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<210> 396

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<400> 396

Glu Gln Ala Thr Glu Met Leu Val His Asn Ala Gln Asn Leu Met Gln
1 5 10 15

Ser Val Lys Glu Thr Val Arg Glu Ala Glu Ala Ala Ser Ile Lys Ile
20 25 30

Arg Thr Asp Ala Gly Phe Thr Leu Arg Trp Val Arg Lys Thr Pro Trp
35 40 45

Tyr Gln
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<400> 397

Val Gly Asn Leu Pro Ala Asp Ile Thr Glu Asp Glu Phe Lys Arg Leu
1 5 10 15

Phe Ala Lys Tyr
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Lys Pro Ala Ala Arg Lys Ala Phe Glu Arg Cys Ser Glu Gly Val Phe
1 5 10 15

Leu Leu Thr Thr
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<400> 399

Ala Gln His Gly Thr Phe Glu Tyr Glu Tyr Ser Gln Arg Trp Lys Ser
1 5 10 15

Leu Asp Glu Met

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<400> 400

Glu Lys Gln Gln Arg Glu Gln Val Glu Lys Asn Met Lys Asp Ala Lys
1 5 10 15

Asp Lys Leu Glu
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<210> 401
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<213> Homo sapiens

<400> 401

Leu Ser Leu Leu Arg Arg Pro Gly Glu Lys Thr Tyr Thr Gln Arg Cys
1 5 10 15

Arg Leu Phe Gly
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<210> 402
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<213> Homo sapiens

<400> 402

Gln Leu Arg Val Arg Phe Ala Thr His Ala Ala Ala Leu Ser Val Arg
1 5 10 15

Asn Leu Ser Pro Tyr Val Ser Asn Glu Leu Leu Glu Glu Ala Phe Ser
20 25 30

Gln Phe Gly Pro Ile Glu Arg Ala Val Val Ile Val Asp Asp Arg Gly
35 40 45

Arg Ser
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<210> 403
<211> 50
<212> PRT
<213> Homo sapiens

<400> 403

Lys Pro Ala Ala Arg Lys Ala Phe Glu Arg Cys Ser Glu Gly Val Phe
Page 155

1 5 10 15

Leu Leu Thr Thr Thr Pro Arg Pro Val Ile Val Glu Pro Leu Glu Gln
20 25 30

Leu Asp Asp Glu Asp Gly Leu Pro Glu Lys Leu Ala Gln Lys Asn Pro
35 40 45

Met Tyr
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<400> 407

Gln Tyr Thr Leu Glu Met Ile Lys Leu Val Pro His Asn Glu Ser Ala
1 5 10 15

Trp Asn Tyr Leu
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<210> 408

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<213> Homo sapiens

<400> 408

Lys Gly Ile Leu Gln Asp Arg Gly Leu Ser Lys Tyr Pro Asn Leu Leu
1 5 10 15

Asn Gln Leu Leu
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<213> Homo sapiens

<400> 409

Tyr Leu Lys Gly Ile Leu Gln Asp Arg Gly Leu Ser Lys Tyr Pro Asn
1 5 10 15

Leu Leu Asn Gln Leu Leu Asp Leu Gln Pro Ser His Ser Ser Pro Tyr
20 25 30

Leu Ile Ala Phe Leu Val Asp Ile Tyr Glu Asp Met Leu Glu Asn Gln
35 40 45

Cys Asp
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<213> Homo sapiens

<400> 410

Asp Ile Leu Asn Gln Asp Ala Lys Asn Tyr His Ala Trp Gln His Arg
1 5 10 15

Gln Trp Val Ile Gln Glu Phe Lys Leu Trp Asp Asn Glu Leu Gln Tyr
20 25 30

Val Asp Gln Leu Leu Lys Glu Asp Val Arg Asn Asn Ser Val Trp Asn
 35 40 45

Gln Arg
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<400> 411

Asn Arg Asn Ser Asp Ser Ala Gly Pro Phe Ala Val Pro Asp His Leu
 1 5 10 15

Arg Gln Asp Val
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<400> 412

Glu Ala Leu Tyr Asp Gln His Ser Asn Glu Tyr Val Val Arg Asn Lys
 1 5 10 15

Lys Leu Trp Asp
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<400> 413

Glu Ala Leu Tyr Asp Gln His Ser Asn Glu Tyr Val Val Arg Asn Lys
 1 5 10 15

Lys Leu Trp Asp
 20

<210> 414
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 <213> Homo sapiens

<400> 414

His Gly Pro Leu Asp Met Ser Asn Lys Met Phe Ser Ala Glu Tyr Glu
 1 5 10 15

Phe Phe Pro Glu
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<210> 415
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<213> Homo sapiens

<400> 415

Glu Thr Arg Gln Ile Leu Glu Lys Ala Gly Gly Leu Lys Pro Phe Leu
1 5 10 15

Leu Gly Cys Pro
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<210> 416
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<213> Homo sapiens

<400> 416

Glu Glu Thr Arg Gln Ile Leu Glu Lys Ala Gly Gly Leu Lys Pro Phe
1 5 10 15

Leu Leu Gly Cys Pro Arg Phe Val Val Ile Asp Asn Cys Ile Ala Leu
20 25 30

Lys Lys Val Ala Ser Arg Leu Lys Lys Lys Arg Lys Lys Lys Asn Ile
35 40 45

Lys Thr
50

<210> 417
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<213> Homo sapiens

<400> 417

Asn Arg Asn Ser Asp Ser Ala Gly Pro Phe Ala Val Pro Asp His Leu
1 5 10 15

Arg Gln Asp Val Glu Glu Phe Glu Ala Leu Tyr Asp Gln His Ser Asn
20 25 30

Glu Tyr Val Val Arg Asn Lys Lys Leu Trp Asp Met Asn Pro Lys Gln
35 40 45

Lys Cys
50

<210> 418
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<400> 418

Glu Phe His Asn Ser Lys Ser Ser Lys Glu Leu Asp Phe Leu Arg Glu
1 5 10 15

Glu Asn His Lys
20

<210> 419
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<400> 419

Asp Leu Lys Arg Leu Ser Lys Asp Lys Asp Leu Glu Ile Asp Glu Leu
1 5 10 15

Gln Lys Arg Leu
20

<210> 420
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<213> Homo sapiens

<400> 420

Asp Trp Asn Met Phe Val Lys Leu Arg Ser Gln Glu Cys Asp Trp Glu
1 5 10 15

Glu Ile Ser Val
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<210> 421
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<213> Homo sapiens

<400> 421

Arg Tyr Val Asn Lys Asp Met Ser Ile Gln Glu Leu Ala Val Leu Val
1 5 10 15

Ser Gly Gln Lys
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<210> 422
<211> 20
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<213> Homo sapiens

<400> 422

Val Ala Val Lys Arg Glu Gln Arg Glu Asn His Leu Arg Arg Ser Ile
1 5 10 15

Val Val Ile His
20

<210> 423

<211> 50

<212> PRT

<213> Homo sapiens

<400> 423

Leu Arg Glu Glu Asn His Lys Leu Gln Leu Glu Arg Gln Asn Leu Gln
1 5 10 15

Leu Glu Thr Arg Arg Leu Gln Ser Glu Ile Asn Met Ala Ala Thr Glu
20 25 30

Thr Arg Asp Leu Arg Asn Met Thr Val Ala Asp Ser Gly Thr Asn His
35 40 45

Asp Ser
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<210> 424

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<213> Homo sapiens

<400> 424

Arg Ser Gln Glu Cys Asp Trp Glu Glu Ile Ser Val Lys Gly Pro Asn
1 5 10 15

Gly Glu Ser Ser Val Ile His Asp Arg Lys Ser Gly Lys Lys Phe Ser
20 25 30

Ile Glu Glu Ala Leu Gln Ser Gly Arg Leu Thr Pro Ala Gln Tyr Asp
35 40 45

Arg Tyr
50

<210> 425

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<212> PRT

<213> Homo sapiens

<400> 425

Ser Thr Glu Lys Asn Ser Leu Val Phe Gln Leu Glu Arg Leu Glu Gln
1 5 10 15

Gln Met Asn Ser
20

<210> 426
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<213> Homo sapiens

<400> 426

Asp Thr Glu Thr Asn Leu Ala Gly Met Tyr Gly Lys Val Arg Lys Ala
1 5 10 15

Ala Ser Ser Ile
20

<210> 427
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<213> Homo sapiens

<400> 427

Tyr Pro Ile Ala Arg Val Phe Val Ile Ile Tyr Met Ala Leu Leu His
1 5 10 15

Leu Trp Val Met
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<210> 428
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<213> Homo sapiens

<400> 428

Val Met Ile Val Leu Leu Thr Tyr Thr Pro Glu Met His His Asp Gln
1 5 10 15

Pro Tyr Gly Lys
20

<210> 429
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<213> Homo sapiens

<400> 429

Met Ser Gly Ile Asp Asn Gly Glu Gly Thr Arg Leu Arg Asn Val Pro
1 5 10 15

Val Leu Phe Asn
20

<210> 430
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<213> Homo sapiens

<400> 430

Ser Thr Glu Lys Asn Ser Leu Val Phe Gln Leu Glu Arg Leu Glu Gln
1 5 10 15

Gln Met Asn Ser Ala Ser Gly Ser Ser Ser Asn Gly Ser Ser Ile Asn
20 25 30

Met Ser Gly Ile Asp Asn Gly Glu Gly Thr Arg Leu Arg Asn Val Pro
35 40 45

Val Leu
50

<210> 431
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<212> PRT
<213> Homo sapiens

<400> 431

Asp Thr Glu Thr Asn Leu Ala Gly Met Tyr Gly Lys Val Arg Lys Ala
1 5 10 15

Ala Ser Ser Ile Asp Gln Phe Ser Ile Arg Leu Gly Ile Phe Leu Arg
20 25 30

Arg Tyr Pro Ile Ala Arg Val Phe Val Ile Ile Tyr Met Ala Leu Leu
35 40 45

His Leu
50

<210> 432
<211> 20
<212> PRT
<213> Homo sapiens

<400> 432

Arg Tyr Pro Lys Leu Ala Ala Leu Asn Pro Glu Ser Asn Thr Ala Gly
1 5 10 15

Leu Asp Ile Phe
20

<210> 433
<211> 20
<212> PRT
<213> Homo sapiens

<400> 433

Ala Lys Phe Ser Ala Tyr Ile Lys Asn Ser Asn Pro Ala Leu Asn Asp
1 5 10 15

Asn Leu Glu Lys
20

<210> 434
<211> 20
<212> PRT
<213> Homo sapiens

<400> 434

Val Asp Glu Thr Ser Ala Glu Asp Glu Gly Val Ser Gln Arg Lys Phe
1 5 10 15

Leu Asp Gly Asn
20

<210> 435
<211> 20
<212> PRT
<213> Homo sapiens

<400> 435

Glu Leu Thr Leu Ala Asp Cys Asn Leu Leu Pro Lys Leu His Ile Val
1 5 10 15

Gln Val Val Cys
20

<210> 436
<211> 20
<212> PRT
<213> Homo sapiens

<400> 436

Asn Ala Tyr Ala Arg Glu Glu Phe Ala Ser Thr Cys Pro Asp Asp Glu
1 5 10 15

Glu Ile Glu Leu
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<210> 437
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<212> PRT
<213> Homo sapiens

<400> 437

Glu Ser Asn Thr Ala Gly Leu Asp Ile Phe Ala Lys Phe Ser Ala Tyr
1 5 10 15

Ile Lys Asn Ser Asn Pro Ala Leu Asn Asp Asn Leu Glu Lys Gly Leu
20 25 30

Leu Lys Ala Leu Lys Val Leu Asp Asn Tyr Leu Thr Ser Pro Leu Pro
35 40 45

Glu Glu
50

<210> 438
<211> 50
<212> PRT
<213> Homo sapiens

<400> 438

Asn Leu Leu Pro Lys Leu His Ile Val Gln Val Val Cys Lys Lys Tyr
1 5 10 15

Arg Gly Phe Thr Ile Pro Glu Ala Phe Arg Gly Val His Arg Tyr Leu
20 25 30

Ser Asn Ala Tyr Ala Arg Glu Glu Phe Ala Ser Thr Cys Pro Asp Asp
35 40 45

Glu Glu
50

<210> 439
<211> 20
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<213> Homo sapiens

<400> 439

Gly Leu Gly Leu Gly Gly Gly Asp Cys Arg Val Lys Ile Ala Thr Lys
1 5 10 15

Ala Asn Pro Trp
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<210> 440
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<400> 440

Glu Glu Thr Leu His Ala Cys Gln Arg Leu His Gln Glu Gly Lys Phe
1 5 10 15

Val Glu Leu Gly
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<210> 441

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<212> PRT

<213> Homo sapiens

<400> 441

Glu Leu Phe Pro Cys Leu Arg His Phe Gly Leu Arg Phe Tyr Ala Tyr
1 5 10 15

Asn Pro Leu Ala
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<213> Homo sapiens

<400> 442

Phe Glu Ala Ile Ala Leu Val Glu Lys Ala Leu Gln Ala Ala Tyr Gly
1 5 10 15

Ala Ser Ala Pro
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<210> 443

<211> 20

<212> PRT

<213> Homo sapiens

<400> 443

Thr Glu Glu Gly Pro Leu Glu Pro Ala Val Val Asp Ala Phe Asn Gln
1 5 10 15

Ala Trp His Leu
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<210> 444

<211> 50

<212> PRT

<213> Homo sapiens

<400> 444

His Gln Glu Gly Lys Phe Val Glu Leu Gly Leu Ser Asn Tyr Ala Ser
1 5 10 15

Trp Glu Val Ala Glu Ile Cys Thr Leu Cys Lys Ser Asn Gly Trp Ile
20 25 30

Leu Pro Thr Val Tyr Gln Gly Met Tyr Asn Ala Thr Thr Arg Gln Val
35 40 45

Glu Thr
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<210> 445
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<212> PRT
<213> Homo sapiens

<400> 445

Leu Gln Ala Ala Tyr Gly Ala Ser Ala Pro Ser Val Thr Ser Ala Ala
1 5 10 15

Leu Arg Trp Met Tyr His His Ser Gln Leu Gln Gly Ala His Gly Asp
20 25 30

Ala Val Ile Leu Gly Met Ser Ser Leu Glu Gln Leu Glu Gln Asn Leu
35 40 45

Ala Ala
50

<210> 446
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<213> Homo sapiens

<400> 446

Ser Asn Arg Asn Ser Asp Ser Ala Gly Pro Phe Ala Val Pro Asp His
1 5 10 15

Leu Arg Gln Asp
20

<210> 447
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<400> 447

Glu Ala Leu Tyr Asp Gln His Ser Asn Glu Tyr Val Val Arg Asn Lys
1 5 10 15

Lys Leu Trp Asp

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<210> 448
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<213> Homo sapiens

<400> 448

Met Asn Pro Lys Gln Lys Cys Ser Thr Leu Tyr Asp Tyr Phe Ser Gln
1 5 10 15

Phe Leu Glu Glu
20

<210> 449
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<213> Homo sapiens

<400> 449

His Gly Pro Leu Asp Met Ser Asn Lys Met Phe Ser Ala Glu Tyr Glu
1 5 10 15

Phe Phe Pro Glu
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<210> 450
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<213> Homo sapiens

<400> 450

Glu Thr Arg Gln Ile Leu Glu Lys Ala Gly Gly Leu Lys Pro Phe Leu
1 5 10 15

Leu Gly Cys Pro
20

<210> 451
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<213> Homo sapiens

<400> 451

Glu Glu Thr Arg Gln Ile Leu Glu Lys Ala Gly Gly Leu Lys Pro Phe
1 5 10 15

Leu Leu Gly Cys Pro Arg Phe Val Val Ile Asp Asn Cys Ile Ala Leu
20 25 30

Lys Lys Val Ala Ser Arg Leu Lys Lys Lys Arg Lys Lys Lys Asn Ile
Page 168

35

40

45

Lys Thr
50

<210> 452
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<212> PRT
<213> Homo sapiens
<400> 452

Phe Ala Val Pro Asp His Leu Arg Gln Asp Val Glu Glu Phe Ala Leu
1 5 10 15

Tyr Asp Gln His Ser Asn Glu Tyr Val Val Arg Asn Lys Lys Leu Trp
20 25 30

Asp Met Asn Pro Lys Gln Lys Cys Ser Thr Leu Tyr Asp Tyr Phe Ser
35 40 45

Gln Phe
50

<210> 453
<211> 20
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<400> 453

Gly Gln Ser Pro Thr Gly Ser Val Cys Tyr Glu Arg Asn Gly Glu Val
1 5 10 15

Phe Tyr Leu Thr
20

<210> 454
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<212> PRT
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<400> 454

Lys Lys Gln Ala Arg Cys Gln Gly Val Val Cys Ala Met Lys Glu Ala
1 5 10 15

Phe Gly Phe Ile
20

<210> 455
<211> 20
<212> PRT
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<400> 455

Val Ala Thr Asp Val Arg Leu Leu Pro Gln Gly Thr Val Ile Phe Glu
1 5 10 15

Asp Ile Ser Ile
20

<210> 456

<211> 20

<212> PRT

<213> Homo sapiens

<400> 456

Asp Lys Asp Thr Lys Ser Lys Val Thr Leu Leu Glu Gly Asp His Val
1 5 10 15

Arg Phe Asn Ile
20

<210> 457

<211> 20

<212> PRT

<213> Homo sapiens

<400> 457

His Ser His Ser Asp His Arg Phe Leu Gly Thr Val Glu Lys Glu Ala
1 5 10 15

Thr Phe Ser Asn
20

<210> 458

<211> 50

<212> PRT

<213> Homo sapiens

<400> 458

Gly Phe Ile Lys Cys Val Asp Arg Asp Val Arg Met Phe Phe His Phe
1 5 10 15

Ser Glu Ile Leu Asp Gly Asn Gln Leu His Ile Ala Asp Glu Val Glu
20 25 30

Phe Thr Val Val Pro Asp Met Leu Ser Ala Gln Arg Asn His Ala Ile
35 40 45

Arg Ile
50

<210> 459
<211> 50
<212> PRT
<213> Homo sapiens

<400> 459

Cys Ala Met Lys Glu Ala Phe Gly Phe Ile Glu Arg Gly Asp Val Val
1 5 10 15

Lys Glu Ile Phe Phe His Tyr Ser Glu Phe Lys Gly Asp Leu Glu Thr
20 25 30

Leu Gln Pro Gly Asp Asp Val Glu Phe Thr Ile Lys Asp Arg Asn Gly
35 40 45

Lys Glu
50

<210> 460
<211> 20
<212> PRT
<213> Homo sapiens

<400> 460

His Lys Leu Ile His Ala Ala Ser Glu Arg Val Leu Ser Asp Ala Arg
1 5 10 15

Thr Ile Leu Glu
20

<210> 461
<211> 20
<212> PRT
<213> Homo sapiens

<400> 461

Glu Asn Ile Gln Asp Gln Asp Val Leu Leu Leu Ile Lys Lys Arg Ala
1 5 10 15

Pro Ser Pro Leu
20

<210> 462
<211> 20
<212> PRT
<213> Homo sapiens

<400> 462

Pro Lys Met Ala Asp Val Ser Ala Glu Glu Lys Lys Lys Gln Asp Gln
1 5 10 15

Lys Ala Pro Asp
20

<210> 463
<211> 20
<212> PRT
<213> Homo sapiens

<400> 463

Lys Glu Ala Ile Leu Arg Ala Thr Ala Asn Leu Pro Ser Tyr Asn Met
1 5 10 15

Asp Arg Ala Ala
20

<210> 464
<211> 20
<212> PRT
<213> Homo sapiens

<400> 464

Val Gln Thr Asn Met Arg Asp Phe Gln Thr Glu Leu Arg Lys Ile Leu
1 5 10 15

Val Ser Leu Ile
20

<210> 465
<211> 50
<212> PRT
<213> Homo sapiens

<400> 465

Lys Ser Ile Thr His His Lys Leu Ile His Ala Ala Ser Glu Arg Val
1 5 10 15

Leu Ser Asp Ala Arg Thr Ile Leu Glu Glu Asn Ile Gln Asp Gln Asp
20 25 30

Val Leu Leu Leu Ile Lys Lys Arg Ala Pro Ser Pro Leu Pro Lys Met
35 40 45

Ala Asp
50

<210> 466
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<213> Homo sapiens

<400> 466

Met Asp Arg Ala Ala Val Gln Thr Asn Met Arg Asp Phe Gln Thr Glu
1 5 10 15

Leu Arg Lys Ile Leu Val Ser Leu Ile Glu Val Ala Gln Lys Leu Leu
20 25 30

Ala Leu Asn Pro Asp Ala Val Glu Leu Phe Lys Lys Ala Asn Ala Met
35 40 45

Leu Asp
50

<210> 467
<211> 20
<212> PRT
<213> Homo sapiens

<400> 467

Ser Ser Gln Glu Ser Leu Asp Ile Ser Leu Cys Ser Thr Gly Ser Leu
1 5 10 15

Gly Ser Leu Gly
20

<210> 468
<211> 20
<212> PRT
<213> Homo sapiens

<400> 468

Val Val Glu Ile Arg Ser Arg Ala Lys Ile Glu Lys Ile Arg Ala Ser
1 5 10 15

Leu Phe Asn Asn
20

<210> 469
<211> 20
<212> PRT
<213> Homo sapiens

<400> 469

Gly Leu Glu Asp Tyr Phe Asn Asp Lys Ser Ile Lys Gly Glu Lys Leu
1 5 10 15

Val Pro Gly Ala
20

<210> 470
<211> 20
<212> PRT

<213> Homo sapiens

<400> 470

Gln Thr Pro Gly Asn Leu Leu His Leu Phe Phe Thr Asn Val Arg Pro
1 5 10 15

Pro Lys Lys Val
20

<210> 471

<211> 20

<212> PRT

<213> Homo sapiens

<400> 471

Pro Lys Phe Asp Lys Ser Lys Tyr Ser Lys Ala Gly Lys Glu Gln His
1 5 10 15

Pro Val Lys Val
20

<210> 472

<211> 50

<212> PRT

<213> Homo sapiens

<400> 472

Glu Lys Ile Arg Ala Ser Leu Phe Asn Asn Asn Asp Leu Ile Gly Leu
1 5 10 15

Ser Ser Leu Asp Gly Glu Asp Glu Leu Met Glu Met Ser Thr Glu Glu
20 25 30

Ile Leu Thr Val Ser Val Val Asn Gln Ser Leu Phe Asp Thr Gln Gly
35 40 45

Ser Pro
50

<210> 473

<211> 50

<212> PRT

<213> Homo sapiens

<400> 473

Ser Ile Lys Gly Glu Lys Leu Val Pro Gly Ala Arg Glu Val Leu Thr
1 5 10 15

Glu Ile Phe Lys Ser Cys Ala His Ser Glu Gln Thr Leu Ser Leu Thr
20 25 30

Pro Ala Lys Pro Ile Arg Val Ser Asp Ile Tyr Leu Ser Lys Glu Gln
35 40 45

Ile Asn
50

<210> 474
<211> 20
<212> PRT
<213> Homo sapiens

<400> 474

Thr Glu Ser Arg Ser Ser Phe Ser Gln His Ala Arg Thr Ser Gly Arg
1 5 10 15

Val Ala Val Glu
20

<210> 475
<211> 20
<212> PRT
<213> Homo sapiens

<400> 475

Tyr Arg Phe Pro Pro Lys Phe Thr Leu Lys Ala Gly Gln Val Val Thr
1 5 10 15

Ile Trp Ala Ala
20

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Arg Lys Leu Val Arg Ser Val Thr Val Val Glu Asp Asp Glu Asp Glu
1 5 10 15

Asp Gly Asp Asp
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<400> 477

Arg Leu Arg Ser Pro Gly Gly Arg Thr His Leu Leu Trp Leu Phe Cys
1 5 10 15

Leu Gln Cys His
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<400> 478

Leu Arg Gly Gln Ser Gly His Pro Leu Leu Pro Pro Gly Gln Leu Gln
1 5 10 15

Pro Pro Asn Pro
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<400> 479

Arg Ser Ser Phe Ser Gln His Ala Arg Thr Ser Gly Arg Val Ala Val
1 5 10 15

Glu Glu Val Asp Glu Glu Gly Lys Phe Val Arg Leu Arg Asn Lys Ser
20 25 30

Asn Glu Asp Gln Ser Met Gly Asn Trp Gln Ile Lys Arg Gln Asn Gly
35 40 45

Asp Asp
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His Leu Leu Trp Leu Phe Cys Leu Gln Cys His Gly His Ser Gln Leu
1 5 10 15

Pro Gln Cys Gly Gly Gln Trp Gly Trp Gln Leu Arg Gly Gln Ser Gly
20 25 30

His Pro Leu Leu Pro Pro Gly Gln Leu Gln Pro Pro Asn Pro Glu Pro
35 40 45

Pro Glu
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Pro Asp Phe Ile Met Ala Lys Gln Val Glu Gln Leu Glu Lys Glu Lys
1 5 10 15

Lys Glu Leu Gln
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Asp Met Asp Leu Trp Glu Gln Gln Glu Glu Glu Arg Ile Thr Thr Met
1 5 10 15

Gln Leu Glu Arg
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Glu Arg Leu Ala Glu Glu Arg His Asn Arg Leu Glu Glu Arg Lys Arg
1 5 10 15

Gln Arg Lys Glu
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Glu Arg Arg Ile Thr Tyr Tyr Arg Glu Lys Glu Glu Glu Glu Gln Arg
1 5 10 15

Arg Ala Glu Glu
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Gln Met Leu Lys Glu Arg Glu Glu Arg Glu Arg Ala Glu Arg Ala Lys
1 5 10 15

Arg Glu Glu Glu
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Arg Ile Thr Tyr Tyr Arg Glu Lys Glu Glu Glu Glu Gln Arg Arg Ala
1 5 10 15

Glu Glu Gln Met Leu Lys Glu Arg Glu Glu Arg Glu Arg Ala Glu Arg
20 25 30

Ala Lys Arg Glu Glu Glu Leu Arg Glu Tyr Gln Glu Arg Val Lys Lys
35 40 45

Leu Glu
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Met Ala Lys Gln Val Glu Gln Leu Glu Lys Glu Lys Lys Glu Leu Gln
1 5 10 15

Glu Arg Leu Lys Asn Gln Glu Lys Lys Ile Asp Tyr Phe Glu Arg Ala
20 25 30

Lys Arg Leu Glu Glu Ile Pro Leu Ile Lys Ser Ala Tyr Glu Glu Gln
35 40 45

Arg Ile
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Gln Ala Asp Asn Asp Phe Thr Asn Glu Arg Leu Thr Ala Leu Gln Glu
1 5 10 15

Asn Gln Thr Arg
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Met Asp Glu Gln Asp Leu Asn Glu Pro Leu Ala Lys Val Ser Leu Leu
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Lys Asp Asp Leu
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Glu Glu Glu Arg Lys Ala Tyr Arg Asn Gln Val Glu Glu Ser Thr Lys
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Gln Ile Gln Val
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<400> 491

Leu His Gln Ala Ala Ala Lys Val Ala Ser Glu Arg Asp Thr Asp Ile
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Ala Ser Leu Gln
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Glu Asp Gln Gln Arg Glu Glu Ala Thr Arg Leu Gln Gly Glu Leu Glu
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Lys Leu Arg Lys
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<400> 493

Leu Ala Lys Val Ser Leu Leu Lys Asp Asp Leu Gln Gly Ala Gln Ser
1 5 10 15

Glu Ile Glu Ala Lys Gln Glu Ile Gln His Leu Arg Lys Glu Leu Ile
20 25 30

Glu Ala Gln Glu Leu Ala Arg Thr Ser Lys Gln Lys Cys Phe Glu Leu
35 40 45

Gln Ala
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<400> 494

Leu His Gln Ala Ala Ala Lys Val Ala Ser Glu Arg Asp Thr Asp Ile
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Ala Ser Leu Gln Glu Glu Leu Lys Lys Val Arg Ala Glu Leu Glu Arg
20 25 30

Trp Arg Lys Ala Ala Ser Glu Tyr Glu Lys Glu Ile Thr Ser Leu Gln
35 40 45

Asn Ser
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Leu Tyr Ser Ala Arg Asp Leu Gln Gly Leu Thr Val Glu His Ala Ile
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Asp Ser Phe Arg

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Glu Lys Asn Val Glu Leu Arg Lys Lys Lys Pro Asp Tyr Leu Pro Tyr
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Ala Glu Asp Glu
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Ser Val Asp Asp Leu Ala Gln Gln Lys Pro Arg Ser Ile Leu Ser Lys
1 5 10 15

Tyr Asp Glu Glu
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<400> 498

Leu Glu Gly Glu Arg Pro His Ser Phe Arg Leu Glu Gln Gly Gly Thr
1 5 10 15

Ala Asp Gly Leu
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<400> 499

Arg Glu Arg Glu Leu Glu Glu Ile Arg Ala Lys Leu Arg Leu Gln Ala
1 5 10 15

Gln Ser Leu Ser
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Leu Tyr Ser Ala Arg Asp Leu Gln Gly Leu Thr Val Glu His Ala Ile
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Asp Ser Phe Arg Glu Gly Glu Thr Met Ile Leu Thr Leu Lys Asp Lys
 20 25 30

Gly Val Leu Gln Glu Glu Glu Asp Val Leu Val Asn Val Asn Leu Val
 35 40 45

Asp Lys
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<400> 501

Glu Ile Arg Ala Lys Leu Arg Leu Gln Ala Gln Ser Leu Ser Thr Val
 1 5 10 15

Gly Pro Arg Leu Ala Ser Glu Tyr Leu Thr Pro Glu Glu Met Val Thr
 20 25 30

Phe Lys Lys Thr Lys Arg Arg Val Lys Lys Ile Arg Lys Lys Glu Lys
 35 40 45

Glu Val
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<210> 502
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<400> 502

His Lys Leu Ile His Ala Ala Ser Glu Arg Val Leu Ser Asp Ala Arg
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Thr Ile Leu Glu
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<400> 503

Glu Asn Ile Gln Asp Gln Asp Val Leu Leu Leu Ile Lys Lys Arg Ala
1 5 10 15

Pro Ser Pro Leu
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Pro Lys Met Ala Asp Val Ser Ala Glu Glu Lys Lys Lys Gln Asp Gln
1 5 10 15

Lys Ala Pro Asp
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<400> 505

Lys Glu Ala Ile Leu Arg Ala Thr Ala Asn Leu Pro Ser Tyr Asn Met
1 5 10 15

Asp Arg Ala Ala
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<400> 506

Val Gln Thr Asn Met Arg Asp Phe Gln Thr Glu Leu Arg Lys Ile Leu
1 5 10 15

Val Ser Leu Ile
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<212> PRT

<213> Homo sapiens

<400> 507

Ile Thr His His Lys Leu Ile His Ala Ala Ser Glu Arg Val Leu Ser
Page 183

Asn Ile Glu Lys
20

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<213> Homo sapiens

<400> 511

Asn Asp Ser Thr Phe Leu His Ser Thr Pro Glu Arg Pro Gly Ile Leu
1 5 10 15

Ser Pro Ala Thr
20

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Ala Ile Arg Gly Pro Gln Gln Pro Ile Trp Lys Pro Phe Pro Asn Gln
1 5 10 15

Asp Ser Asp Ser
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Val Val Leu Ser Gly Thr Asp Ser Glu Leu His Ile Pro Arg Val Cys
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Glu Phe Cys Gln
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Gln Leu Leu Leu Val Asn Ser Thr Gln Asp Asn Asn Tyr Gly Cys Val
1 5 10 15

Pro Leu Leu Glu Asp Ser Asp Thr Arg Lys Asn Thr Leu Thr Leu Ala
20 25 30

Gln Pro Gln Asp Lys Val Ile Ser Gly Ile Ala Arg Glu Lys Leu Pro
35 40 45

Lys Val
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Gln Asn Leu Lys Thr Thr Asp Lys Thr Lys Pro Ser Asn Leu Val Asn
1 5 10 15

Thr Cys Ile Arg Thr Thr Leu Asp Arg Ala Ala Cys Leu Pro Pro Gly
20 25 30

Asp His Asn Ala Leu Tyr Val Asn Ser Phe Pro Leu Leu Asp Pro Ser
35 40 45

Asp Ala
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Gln Leu Leu Leu Val Asn Ser Thr Gln Asp Asn Asn Tyr Gly Cys Val
1 5 10 15

Pro Leu Leu Glu
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Glu Thr Ser Ala Arg Ser Leu Gly Ser Pro Leu Leu His Glu Arg Gly
1 5 10 15

Asn Ile Glu Lys
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Ile Gln Cys Thr Asp Lys Thr Asp Lys Gln Glu Ala Leu Phe Thr Pro
1 5 10 15

Gln Ala Lys Asp
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Asn Asp Ser Thr Phe Leu His Ser Thr Pro Glu Arg Pro Gly Ile Leu
1 5 10 15

Ser Pro Ala Thr
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Gln Asn Leu Lys Thr Thr Asp Lys Thr Lys Pro Ser Asn Leu Val Asn
1 5 10 15

Thr Cys Ile Arg
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Ala Ile Arg Gly Pro Gln Gln Pro Ile Trp Lys Pro Phe Pro Asn Gln
1 5 10 15

Asp Ser Asp Ser Val Val Leu Ser Gly Thr Asp Ser Glu Leu His Ile
20 25 30

Pro Arg Val Cys Glu Phe Cys Gln Ala Val Phe Pro Pro Ser Ile Thr
35 40 45

Ser Arg
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Gln Asp Asn Asn Tyr Gly Cys Val Pro Leu Leu Glu Asp Ser Asp Thr
1 5 10 15

Arg Lys Asn Thr Leu Thr Leu Ala Gln Pro Gln Asp Lys Val Ile Ser
20 25 30

Gly Ile Ala Arg Glu Lys Leu Pro Lys Val Arg Arg Gln Glu Val Ser
35 40 45

Ser Pro
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Ser Thr Gln Ala Ala Leu Gln Ala Met Glu Arg Glu Ala Glu Gln Met
1 5 10 15

Gly Asn Glu Leu
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Ala Leu Glu Lys Ala Ala Arg Ala Glu Leu Glu Met Arg Leu Gln Asn
1 5 10 15

Ala Leu Asn Glu
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Gln Arg Val Glu Phe Ala Thr Leu Gln Glu Ala Leu Ala His Ala Leu
1 5 10 15

Thr Glu Lys Glu
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<400> 526

Gly Lys Asp Gln Glu Leu Ala Lys Leu Arg Gly Leu Glu Ala Ala Gln
1 5 10 15

Ile Lys Glu Leu
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<400> 527

Glu Ala Ala Gln Ile Lys Glu Leu Glu Glu Leu Arg Gln Thr Val Lys
1 5 10 15

Gln Leu Lys Glu
20

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<400> 528

Ala Met Glu Arg Glu Ala Glu Gln Met Gly Asn Glu Leu Glu Arg Leu
1 5 10 15

Arg Ala Ala Leu Met Glu Ser Gln Gly Gln Gln Gln Glu Glu Arg Gly
20 25 30

Gln Gln Glu Arg Glu Val Ala Arg Leu Thr Gln Glu Arg Gly Arg Ala
35 40 45

Gln Ala
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<400> 529

Val Glu Phe Ala Thr Leu Gln Glu Ala Leu Ala His Ala Leu Thr Glu
1 5 10 15

Lys Glu Gly Lys Asp Gln Glu Leu Ala Lys Leu Arg Gly Leu Glu Ala
20 25 30

Ala Gln Ile Lys Glu Leu Glu Glu Leu Arg Gln Thr Val Lys Gln Leu
35 40 45

Lys Glu
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Leu Glu Asp Glu Trp Gln Ala Ile Ser Glu Ile Ala Ser Thr Cys Asn
1 5 10 15

Thr Ile Leu Glu
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Gly Thr Pro Lys Ser Asp Ala Glu Pro Glu Pro Gly Asn Leu Ser Glu
1 5 10 15

Lys Val Ser His
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Leu Glu Ser Met Leu Arg Lys Leu Gln Glu Asp Leu Gln Lys Glu Lys
1 5 10 15

Ala Asp Arg Ala
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Ala Leu Glu Glu Glu Val Arg Ser Leu Arg His Asn Asn Arg Arg Leu
1 5 10 15

Gln Ala Glu Ser
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Glu Ser Ala Ala Thr Arg Leu Leu Leu Ala Ser Lys Gln Leu Gly Ser
1 5 10 15

Pro Thr Ala Asp
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Leu Glu Asp Glu Trp Gln Ala Ile Ser Glu Ile Ala Ser Thr Cys Asn
1 5 10 15

Thr Ile Leu Glu Ser Leu Ser Arg Glu Gly Gln Pro Ile Pro Glu Ser
20 25 30

Gly Asp Pro Lys Gly Thr Pro Lys Ser Asp Ala Glu Pro Glu Pro Gly
35 40 45

Asn Leu
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<400> 536

Gln Lys Glu Lys Ala Asp Arg Ala Ala Leu Glu Glu Glu Val Arg Ser
1 5 10 15

Leu Arg His Asn Asn Arg Arg Leu Gln Ala Glu Ser Glu Ser Ala Ala
20 25 30

Thr Arg Leu Leu Leu Ala Ser Lys Gln Leu Gly Ser Pro Thr Ala Asp
35 40 45

Leu Ala
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Ser Leu Val Ser Ser Tyr Leu Gln Thr Gln Glu Met Val Ser Asn Phe
1 5 10 15

Asp Leu Asn Ser
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Gln Leu Glu Val Arg Glu Lys Gln Leu Gln Glu Arg Met Gln Gln Leu
1 5 10 15

Asp Arg Glu Asn
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Gln Trp Glu Val Thr Gln Ala Thr Gln Asn Thr Val Lys Glu Leu Gln
1 5 10 15

Thr Cys Leu Gln
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Lys Asn Gln His Leu Ala Ser Phe Pro Gly Trp Leu Ala Met Ala Gln
1 5 10 15

Gln Lys Ala Asp
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Asn Arg Gln Gln Ser Ala Gln Leu Glu Gln Leu Val Lys Glu Leu Gln
1 5 10 15

Leu Lys Glu Asp
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<400> 542

Leu Lys Glu Asp Ala Arg Ala Ser Leu Glu Arg Leu Val Lys Glu Met
1 5 10 15

Ala Pro Leu Gln Glu Glu Leu Ser Gly Lys Gly Gln Glu Ala Asp Gln
20 25 30

Leu Trp Arg Arg Leu Gln Glu Leu Leu Ala His Thr Ser Ser Trp Glu
35 40 45

Glu Glu
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<213> Homo sapiens

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Ala Val Ser Gln Gln Gly Glu Gln Leu Gln Thr Glu Arg Glu Arg Gly
1 5 10 15

Arg Thr Ala Ala Glu Asp Asn Val Arg Leu Thr Cys Leu Val Ala Glu
20 25 30

Leu Gln Lys Gln Trp Glu Val Thr Gln Ala Thr Gln Asn Thr Val Lys
35 40 45

Glu Leu

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Met Cys Asp Arg Lys Ala Val Ile Lys Asn Ala Asp Met Ser Glu Glu
1 5 10 15

Met Gln Gln Asp
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Ser Val Glu Cys Ala Thr Gln Ala Leu Glu Lys Tyr Asn Ile Glu Lys
1 5 10 15

Asp Ile Ala Ala
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His Ile Lys Lys Glu Phe Asp Lys Lys Tyr Asn Pro Thr Trp His Cys
1 5 10 15

Ile Val Gly Arg
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Asn Phe Gly Ser Tyr Val Thr His Glu Thr Lys His Phe Ile Tyr Phe
1 5 10 15

Tyr Leu Gly Gln
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Ala His Ile Lys Lys Glu Phe Asp Lys Lys Tyr Asn Pro Thr Trp His
1 5 10 15

Cys Ile Val Gly Arg Asn Phe Gly Ser Tyr Val Thr His Glu Thr Lys
20 25 30

His Phe Ile Tyr Phe Tyr Leu Gly Gln Val Ala Ile Leu Leu Phe Lys
35 40 45

Ser Gly
50

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<400> 549

Met Cys Asp Arg Lys Ala Val Ile Lys Asn Ala Asp Met Ser Glu Glu
1 5 10 15

Met Gln Gln Asp Ser Val Glu Cys Ala Thr Gln Ala Leu Glu Lys Tyr
20 25 30

Asn Ile Glu Lys Asp Ile Ala Ala His Ile Lys Lys Glu Phe Asp Lys
35 40 45

Lys Tyr
50

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Lys Arg Gly Ile Leu Thr Leu Lys Tyr Pro Ile Glu His Gly Ile Val
1 5 10 15

Thr Asn Trp Asp
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<213> Homo sapiens

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Gln Ile Met Phe Glu Thr Phe Asn Thr Pro Ala Met Tyr Val Ala Ile
1 5 10 15

Gln Ala Val Leu
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Gly Arg Asp Leu Thr Asp Tyr Leu Met Lys Ile Leu Thr Glu Arg Gly
1 5 10 15

Tyr Ser Phe Thr
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Ala Gly Arg Asp Leu Thr Asp Tyr Leu Met Lys Ile Leu Thr Glu Arg
1 5 10 15

Gly Tyr Ser Phe
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Gly Gly Thr Thr Met Tyr Pro Gly Ile Ala Asp Arg Met Gln Lys Glu
1 5 10 15

Ile Thr Ala Leu
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<211> 50

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<213> Homo sapiens

<400> 555

Ile Glu His Gly Ile Val Thr Asn Trp Asp Asp Met Glu Lys Ile Trp
Page 196

1 5 10 15

His His Thr Phe Tyr Asn Glu Leu Arg Val Ala Pro Glu Glu His Pro
20 25 30

Val Leu Leu Thr Glu Ala Pro Leu Asn Pro Lys Ala Asn Arg Glu Lys
35 40 45

Met Thr
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Gly Ile Phe Leu
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Asp Leu Leu Arg Lys Val Arg Ala Lys Glu Thr Arg Lys Arg Ala Leu
1 5 10 15

Ser Arg Leu Lys
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Arg Thr Phe Asn Thr Ser Thr Gly Gly Leu Leu Leu Pro Ser Asp Thr
1 5 10 15

Lys Arg Ser Gln
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Tyr Leu Arg Pro Ser Leu Phe Val Tyr Pro Glu Glu Ser Leu Val Ile
1 5 10 15

Gly Ser Ser Thr
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<213> Homo sapiens

<400> 562

Asp Leu Met His Leu Lys Lys Pro Gly Gly Phe Asp Ile Ser Leu Phe
1 5 10 15

Tyr Arg Asp Ile Ile Ser Ile Ala Glu Asp Glu Asp Leu Arg Val His
20 25 30

Phe Glu Glu Ser Ser Lys Leu Glu Asp Leu Leu Arg Lys Val Arg Ala
35 40 45

Lys Glu
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Ile Ser Val Gly Ile Tyr Asn Leu Val Gln Lys Ala Leu Lys Pro Pro
1 5 10 15

Pro Ile Lys Leu Tyr Arg Glu Thr Asn Glu Pro Val Lys Thr Lys Thr
20 25 30

Arg Thr Phe Asn Thr Ser Thr Gly Gly Leu Leu Leu Pro Ser Asp Thr
35 40 45

Lys Arg
50

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<400> 564

Asn Gln Lys Ala Ala Glu Ser Leu Ala Asp Pro Thr Glu Tyr Glu Asn
1 5 10 15

Leu Phe Pro Gly
20

<210> 565
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<213> Homo sapiens

<400> 565

Leu Lys Glu Ala Phe Val Val Glu Glu Trp Val Lys Glu Thr His Ala
1 5 10 15

Asp Leu Trp Pro
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<213> Homo sapiens

<400> 566

Ala Lys Gln Tyr Pro Leu Val Thr Pro Asn Glu Glu Arg Asn Val Met
1 5 10 15

Glu Glu Gly Lys
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<210> 567

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<213> Homo sapiens

<400> 567

Asp Phe Gln Pro Ser Arg Ser Thr Ala Gln Gln Glu Leu Asp Gly Lys
1 5 10 15

Pro Ala Ser Pro
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<211> 20

<212> PRT

<213> Homo sapiens

<400> 568

Thr Pro Val Ile Val Ala Ser His Thr Ala Asn Lys Glu Glu Lys Ser
1 5 10 15

Leu Leu Glu Leu
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<211> 50

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<213> Homo sapiens

<400> 569

Val Val Lys Leu Trp Arg Glu Asn Leu Ser Lys Val Asn Gln Lys Ala
1 5 10 15

Ala Glu Ser Leu Ala Asp Pro Thr Glu Tyr Glu Asn Leu Phe Pro Gly
20 25 30

Leu Lys Glu Ala Phe Val Val Glu Glu Trp Val Lys Glu Thr His Ala
35 40 45

Asp Leu
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<212> PRT
<213> Homo sapiens

<400> 570

Pro Ala Ser Pro Thr Pro Val Ile Val Ala Ser His Thr Ala Asn Lys
1 5 10 15

Glu Glu Lys Ser Leu Leu Glu Leu Glu Val Asp Leu Asp Asn Leu Glu
20 25 30

Leu Glu Asp Ile Asp Thr Thr Asp Ile Asn Leu Asp Glu Asp Ile Leu
35 40 45

Asp Asp
50

<210> 571
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Met Arg Ile Ala Val Ile Cys Phe Cys Leu Leu Gly Ile Thr Cys Ala
1 5 10 15

Ile Pro Val Lys
20

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<400> 572

Gln Ala Asp Ser Gly Ser Ser Glu Glu Lys Gln Leu Tyr Asn Lys Tyr
1 5 10 15

Pro Asp Ala Val
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<210> 573
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<212> PRT
<213> Homo sapiens

<400> 573

Pro Asp Ala Val Ala Thr Trp Leu Asn Pro Asp Pro Ser Gln Lys Gln
1 5 10 15

Asn Leu Leu Ala
20

<210> 574
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Met Arg Ile Ala Val Ile Cys Phe Cys Leu Leu Gly Ile Thr Cys Ala
1 5 10 15

Ile Pro Val Lys Gln Ala Asp Ser Gly Ser Ser Glu Glu Lys Gln Leu
20 25 30

Tyr Asn Lys Tyr Pro Asp Ala Val Ala Thr Trp Leu Asn Pro Asp Pro
35 40 45

Ser Gln
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Asn Phe Leu Asp Gly Ala Leu Val Leu Glu Val Asp Glu Arg Asp Gln
1 5 10 15

Asp Asp Glu Glu
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Arg Ala Phe Tyr Arg Ile Gln Ala Thr Arg Leu Met Thr Gly Ala Gly
1 5 10 15

Asn Ile Leu Lys
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Asn Cys Gly Thr Val Ala Leu Thr Ile Ile Arg Arg Gly Gly Asp Leu
1 5 10 15

Thr Asn Thr Val
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Asp Asp Asp Ile Phe Glu Glu Asp Glu Asn Phe Leu Val His Leu Ser
1 5 10 15

Asn Val Lys Val
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Thr Phe Glu Glu Pro Val Thr His Val Ser Glu Ser Ile Gly Ile Met
1 5 10 15

Glu Val Lys Val
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Arg Arg Glu Met Ala Arg Ile Leu Lys Glu Leu Lys Gln Lys His Pro
1 5 10 15

Asp Lys Glu Ile Glu Gln Leu Ile Glu Leu Ala Asn Tyr Gln Val Leu
20 25 30

Ser Gln Gln Gln Lys Ser Arg Ala Phe Tyr Arg Ile Gln Ala Thr Arg
35 40 45

Leu Met
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Thr Ala Thr Val Thr Ile Phe Asp Asp Asp His Ala Gly Ile Phe Thr
1 5 10 15

Phe Glu Glu Pro Val Thr His Val Ser Glu Ser Ile Gly Ile Met Glu
20 25 30

Val Lys Val Leu Arg Thr Ser Gly Ala Arg Gly Asn Val Ile Val Pro
35 40 45

Tyr Lys
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Ala Ala Ser Val Glu Gln Ala Thr Gln Asn Phe Leu Glu Lys Gly Glu
1 5 10 15

Gln Ile Ala Lys
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Lys Lys Met Val Lys Leu Asn Tyr Val Ala Ala Arg Arg Gln Gln Glu
1 5 10 15

Leu Lys Asp Pro
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Pro Ser Leu Glu Glu Arg Leu Glu Ser Ile Ile Ser Gly Ala Ala Leu
1 5 10 15

Met Ala Asp Ser
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Phe Arg Glu His Ala Asn Lys Leu Val Glu Val Ala Asn Leu Ala Cys
1 5 10 15

Ser Ile Ser Asn
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Ser Leu Cys Pro Gln Val Ile Asn Ala Ala Leu Thr Leu Ala Ala Arg
1 5 10 15

Pro Gln Ser Lys
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Gly Thr Met Val Arg Ala Ala Arg Ala Leu Leu Ser Ala Val Thr Arg
1 5 10 15

Leu Leu Ile Leu Ala Asp Met Ala Asp Val Met Arg Leu Leu Ser His
20 25 30

Leu Lys Ile Val Glu Glu Ala Leu Glu Ala Val Lys Asn Ala Thr Asn
35 40 45

Glu Gln
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Pro Leu Asn Ile Ala Ile Asp Lys Met Thr Lys Lys Thr Arg Asp Leu
1 5 10 15

Arg Arg Gln Leu Arg Lys Ala Val Met Asp His Ile Ser Asp Ser Phe
 20 25 30

Leu Glu Thr Asn Val Pro Leu Leu Val Leu Ile Glu Ala Ala Lys Ser
 35 40 45

Gly Asn
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Pro Ser Leu Leu Arg Asp Val Gln Leu Ser Gly Pro Gly Gly Gln Ala
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Gln Ala Glu Ala
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Thr Met Leu Lys Ala Ile Cys Val Asp Val Asp His Gly Leu Leu Pro
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Arg Glu Glu Trp
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Gln Ala Lys Val Ala Gly Ser Glu Glu Asn Gly Thr Ala Glu Thr Glu
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Glu Val Glu Asp
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Glu Ser Ala Ser Gly Glu Leu Asp Leu Glu Ala Gln Phe His Leu His
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Phe Ser Ser Leu
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His His Ile Leu Met His Leu Thr Glu Lys Ala Gln Glu Val Thr Arg
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Lys Tyr Gln Glu
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<400> 594

Pro Ser Leu Leu Arg Asp Val Gln Leu Ser Gly Pro Gly Gly Gln Ala
1 5 10 15

Gln Ala Glu Ala Pro Asp Leu Tyr Thr Tyr Phe Thr Met Leu Lys Ala
20 25 30

Ile Cys Val Asp Val Asp His Gly Leu Leu Pro Arg Glu Glu Trp Gln
35 40 45

Ala Lys
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<400> 595

Glu Asn Gly Thr Ala Glu Thr Glu Glu Val Glu Asp Glu Ser Ala Ser
1 5 10 15

Gly Glu Leu Asp Leu Glu Ala Gln Phe His Leu His Phe Ser Ser Leu
20 25 30

His His Ile Leu Met His Leu Thr Glu Lys Ala Gln Glu Val Thr Arg
Page 207

35

40

45

Lys Tyr
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Leu Val Lys Leu Ala Pro Asp Phe Asp Lys Ile Val Glu Ser Leu Ser
1 5 10 15

Leu Leu Lys Asp
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Asp Phe Phe Thr Ser Gly Ser Pro Glu Glu Thr Ala Phe Arg Ala Thr
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Asp Arg Gly Ser
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Lys Glu Leu Arg Lys Leu Val Leu Gln Lys Asp Asp Lys Gly Ile His
1 5 10 15

His Arg Lys Leu
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Lys Thr Ser Val Leu Glu Met Ile Ala Gln Ala Arg Ile Phe Pro Arg
1 5 10 15

Gly Ser Gly Glu

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His Glu Ile Glu Leu Arg Met Arg Lys Asn Val Lys Glu Gly Cys Thr
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Val Ser Pro Glu
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<400> 601

Phe Arg Lys Val Ser Asp Lys Glu Lys Ile Asp Gln Leu Gln Glu Glu
1 5 10 15

Leu Leu His Thr Gln Leu Lys Tyr Gln Arg Ile Leu Glu Arg Leu Glu
20 25 30

Lys Glu Asn Lys Glu Leu Arg Lys Leu Val Leu Gln Lys Asp Asp Lys
35 40 45

Gly Ile
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Met Thr Arg Ser Pro Val Lys Val Thr Leu Ser Glu Gly Pro His His
1 5 10 15

Val Ala Leu Phe Lys Asp Ser Ser Arg Glu Phe Asp Leu Thr Lys Glu
20 25 30

Glu Asp Leu Ala Ala Leu Arg His Glu Ile Glu Leu Arg Met Arg Lys
35 40 45

Asn Val
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Thr Lys Gly His Ser Tyr Pro Pro Gly Pro Ala Glu Val Ser Arg Leu
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Arg Arg Cys Arg
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Ser Ala Gln Pro Ser Pro Glu Arg Gln Pro Ser Pro Leu Glu Pro Arg
1 5 10 15

Pro Val Ser Pro
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Ala Ala Leu Asp Ala Leu Asp Lys Ala Gln Arg Gln Leu Gln Ala Cys
1 5 10 15

Lys Arg Arg Glu
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Ala Arg Glu Lys Arg Ala Gln Ala Asp Ala Arg Gln Thr Leu Lys Glu
1 5 10 15

His Val Gln Asp
20

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<400> 607

Glu Lys Arg Ala Gln Ala Asp Ala Arg Gln Thr Leu Lys Glu His Val
1 5 10 15

Gln Asp Phe Ala
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Pro Leu Gly Ala Gln Ala Asp Glu Ala Gly Cys Ser Ala Gln Pro Ser
1 5 10 15

Pro Glu Arg Gln Pro Ser Pro Leu Glu Pro Arg Pro Val Ser Pro Ser
20 25 30

Ala Tyr Met Leu Arg Leu Pro Pro Pro Ala Gly Ala Tyr Ile Gln Asn
35 40 45

Glu His
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<210> 609

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<400> 609

Pro Leu Gly Ala Gln Ala Asp Glu Ala Gly Cys Ser Ala Gln Pro Ser
1 5 10 15

Pro Glu Arg Gln Pro Ser Pro Leu Glu Pro Arg Pro Val Ser Pro Ser
20 25 30

Ala Tyr Met Leu Arg Leu Pro Pro Pro Ala Gly Ala Tyr Ile Gln Asn
35 40 45

Glu His
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Ala Ile Val Glu Phe Asp Tyr Gln Ala Gln His Asp Asp Glu Leu Thr
1 5 10 15

Ile Ser Val Gly
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Lys Lys Asp Pro Leu Thr Asn Lys Ala Pro Glu Lys Pro Leu His Glu
1 5 10 15

Val Pro Ser Gly
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<400> 612

Val Gly Asp Ile Ile Glu Val Val Gly Glu Val Glu Glu Gly Trp Trp
1 5 10 15

Glu Gly Val Leu
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<210> 613
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<400> 613

Ser Glu Ser Asp Gly Gly Asp Ser Ser Ser Thr Lys Ser Glu Gly Ala
1 5 10 15

Asn Gly Thr Val
20

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<400> 614

Glu Lys Thr Ile Gly Lys Lys Leu Pro Ala Thr Thr Ala Thr Pro Asp
1 5 10 15

Ser Ser Lys Thr
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<400> 615

His Asp Asp`Glu Leu Thr Ile Ser Val Gly Glu Ile Ile Thr Asn Ile
1 5 10 15

Arg Lys Glu Asp Gly Gly Trp Trp Glu Gly Gln Ile Asn Gly Arg Arg
20 25 30

Gly Leu Phe Pro Asp Asn Phe Val Arg Glu Ile Lys Lys Glu Met Lys
35 40 45

Lys Asp
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Thr Lys Ser Glu Gly Ala Asn Gly Thr Val Ala Thr Ala Ala Ile Gln
1 5 10 15

Pro Lys Lys Val Lys Gly Val Gly Phe Gly Asp Ile Phe Lys Asp Lys
20 25 30

Pro Ile Lys Leu Arg Pro Arg Ser Ile Glu Val Glu Asn Asp Phe Leu
35 40 45

Pro Val
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Glu His Gly Glu Pro Phe Ile Gln Ala Cys Met Thr Phe Leu Lys Arg
1 5 10 15

Arg Cys Pro Ser Ile Leu Gly Gly
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Gln Ala Cys Ala Gly Ser Val Ser Gln Glu Leu Ser Glu Thr Ile Leu
1 5 10 15

Thr Met Val Ala Asn Cys Ser Asn Val Met Asn Lys Ala
20 25

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Gly Met Thr Ser Leu Ser Ile Gly Gly Ser Ala Ala Pro His Thr Gln
1 5 10 15

Ser Met Gln Gly Phe Pro Pro Asn Leu Gly Ser
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Leu Pro Val Gly Gly Leu Gly Thr Gly Ser Leu Thr Gly Ile Gly Thr
1 5 10 15

Gly Ala Leu Gly Leu Pro Ala Val Asn Asn Asp Pro Phe
20 25

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Ala Asn Gln His Phe Ser Lys Glu Ile Asp Asp Glu Ala Asn Ser Tyr
1 5 10 15

Phe Gln Arg Ile Tyr Asn His Pro
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Phe Glu Glu Tyr Arg Phe Phe Pro Gln Tyr Pro Asp Lys Glu Leu His
1 5 10 15

Ile Thr Ala Cys Leu Phe Gly Gly Ile Ile Glu Lys Gly Leu Val Thr
20 25 30

Tyr Met Ala Leu Gly Leu Ala Leu Arg Tyr Val Leu Glu Ala Leu Arg
35 40 45

Lys Pro
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Asp Thr Leu Leu Val Ala Thr Asp Gln Thr Glu Arg Ile Val Glu Pro
1 5 10 15

Pro Glu Asn Ile Gln Glu Lys Ile Ala Phe Ile Phe Asn Asn Leu Ser
20 25 30

Gln Ser Asn Met Thr Gln Lys Val Glu Glu Leu Lys Glu Thr Val Lys
35 40 45

Glu Glu
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Met Ala Asp Tyr Ser Thr Val Pro Pro Pro Ser Ser Gly Ser Ala Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Gly Gly Val Asn
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Glu Gln Ile Ser Arg Ile Gln Gln Glu Ser Gly Cys Lys Ile Gln Ile
1 5 10 15

Ala Pro Asp Ser
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Glu Gln Ile Ser Arg Ile Gln Gln Glu Ser Gly Cys Lys Ile Gln Ile
1 5 10 15

Ala Pro Asp Ser
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Pro Tyr Lys Val Gln Gln Ala Lys Glu Met Val Leu Glu Leu Ile Arg
1 5 10 15

Asp Gln Gly Gly
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Arg Gly Arg Gly Gln Gly Asn Trp Asn Met Gly Pro Pro Gly Gly Leu
1 5 10 15

Gln Glu Phe Asn
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Met Gly Pro Tyr Asn Pro Ala Pro Tyr Asn Pro Gly Pro Pro Gly Pro
1 5 10 15

Ala Pro His Gly Pro Pro Ala Pro Tyr Ala Pro Gln Gly Trp Gly Asn
20 25 30

Ala Tyr Pro His Trp Gln Gln Gln Ala Pro Pro Asp Pro Ala Lys Ala
35 40 45

Gly Thr
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<210> 630
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Gly Gly Gln Lys Arg Pro Leu Glu Asp Gly Asp Gln Pro Asp Ala Lys
1 5 10 15

Lys Val Ala Pro Gln Asn Asp Ser Phe Gly Thr Gln Leu Pro Pro Met
20 25 30

His Gln Gln Gln Ser Arg Ser Val Met Thr Glu Glu Tyr Lys Val Pro
35 40 45

Asp Gly
50

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Glu Trp Leu Cys Leu Leu Ser Pro Ser Gly Pro Val Cys Thr Cys Pro
1 5 10 15

Asn Gly Lys Arg Leu Asp Asn
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Asn Leu Gln Cys Phe Asn Gly Gly Ser Cys Phe Leu Asn Ala Arg Arg
1 5 10 15

Gln Pro Lys Cys Arg Cys Gln Pro Arg Tyr Thr
20 25

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<400> 633

Phe Thr Gly Pro Lys Cys Thr Gln Gln Val Cys Ala Gly Tyr Cys Ala
1 5 10 15

Asn Asn Ser Thr Cys Thr Val Asn Gln
20 25

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Ala Ala Asp Gly Ser Arg Gln Cys Arg Cys Thr Ala Tyr Phe Glu Gly
1 5 10 15

Ser Arg Cys Glu Val Asn Lys Cys Ser Arg Cys Leu Glu
20 25

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Cys Ser Asn Gly Gly Ser Cys Thr Met Asn Ser Lys Met Met Pro Glu
1 5 10 15

Cys Gln Cys Pro Pro His Met Thr Gly Pro
20 25

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Val Phe Trp Tyr Lys Arg Arg Val Gln Gly Ala Lys Gly Phe Gln His
1 5 10 15

Gln Arg Met Thr Asn Gly Ala Met Asn Val Glu Ile Gly Asn Pro Thr
20 25 30

Tyr Lys Met Tyr Glu Gly Gly Glu Pro Asp Asp Val Gly Gly Leu Leu
35 40 45

Asp Ala
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Cys Phe Leu Asn Ala Arg Arg Gln Pro Lys Cys Arg Cys Gln Pro Arg
1 5 10 15

Tyr Thr Gly Asp Lys Cys Glu Leu Asp Gln Cys Trp Glu His Cys Arg
20 25 30

Asn Gly Gly Thr Cys Ala Ala Ser Pro Ser Gly Met Pro Thr Cys Arg
35 40 45

Cys Pro
50

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Met Ala Ser Asn Asp Tyr Thr Gln Gln Ala Thr Gln Ser Tyr Gly Ala
1 5 10 15

Tyr Pro Thr Gln
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Pro Gly Gln Gly Tyr Ser Gln Gln Ser Ser Gln Pro Tyr Gly Gln Gln
1 5 10 15

Ser Tyr Ser Gly
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Pro Gly Gln Gly Tyr Ser Gln Gln Ser Ser Gln Pro Tyr Gly Gln Gln
1 5 10 15

Ser Tyr Ser Gly
20

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<400> 641

Ser Gln Asn Thr Gly Tyr Gly Thr Gln Ser Thr Pro Gln Gly Tyr Gly
1 5 10 15

Ser Thr Gly Gly
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<400> 642

Tyr Gly Ser Ser Gln Ser Ser Gln Ser Ser Tyr Gly Gln Gln Ser Ser
1 5 10 15

Tyr Pro Gly Tyr
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Thr Gly Tyr Gly Thr Gln Ser Thr Pro Gln Gly Tyr Gly Ser Thr Gly
1 5 10 15

Gly Tyr Gly Ser Ser Gln Ser Ser Gln Ser Ser Tyr Gly Gln Gln Ser
20 25 30

Ser Tyr Pro Gly Tyr Gly Gln Gln Pro Ala Pro Ser Ser Thr Ser Gly
35 40 45

Ser Tyr
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Met Ala Ser Asn Asp Tyr Thr Gln Gln Ala Thr Gln Ser Tyr Gly Ala
1 5 10 15

Tyr Pro Thr Gln Pro Gly Gln Gly Tyr Ser Gln Gln Ser Ser Gln Pro
20 25 30

Tyr Gly Gln Gln Ser Tyr Ser Gly Tyr Ser Gln Ser Thr Asp Thr Ser
35 40 45

Gly Tyr
50

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Met Ala Ser Asn Asp Tyr Thr Gln Gln Ala Thr Gln Ser Tyr Gly Ala
1 5 10 15

Tyr Pro Thr Gln
20

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Pro Gly Gln Gly Tyr Ser Gln Gln Ser Ser Gln Pro Tyr Gly Gln Gln
1 5 10 15

Ser Tyr Ser Gly
20

<210> 647
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<400> 647

Tyr Ser Gln Ser Thr Asp Thr Ser Gly Tyr Gly Gln Ser Ser Tyr Ser
1 5 10 15

Ser Tyr Gly Gln

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<210> 648
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Ser Gln Asn Ser Tyr Gly Thr Gln Ser Thr Pro Gln Gly Tyr Gly Ser
1 5 10 15

Thr Gly Gly Tyr
20

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Gly Ser Ser Gln Ser Ser Gln Ser Ser Tyr Gly Gln Gln Ser Ser Tyr
1 5 10 15

Pro Gly Tyr Gly
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Asn Ser Tyr Gly Thr Gln Ser Thr Pro Gln Gly Tyr Gly Ser Thr Gly
1 5 10 15

Gly Tyr Gly Ser Ser Gln Ser Ser Gln Ser Ser Tyr Gly Gln Gln Ser
20 25 30

Ser Tyr Pro Gly Tyr Gly Gln Gln Pro Ala Pro Ser Ser Thr Ser Gly
35 40 45

Ser Tyr
50

<210> 651
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<212> PRT
<213> Homo sapiens

<400> 651

Ala Ser Asn Asp Tyr Thr Gln Gln Ala Thr Gln Ser Tyr Gly Ala Tyr
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1 5 10 15

Pro Thr Gln Pro Gly Gln Gly Tyr Ser Gln Gln Ser Ser Gln Pro Tyr
 20 25 30

Gly Gln Gln Ser Tyr Ser Gly Tyr Ser Gln Ser Thr Asp Thr Ser Gly
 35 40 45

Tyr Gly
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Asp Thr Lys Phe Leu Cys Pro Leu Cys Met Arg Ser Arg Arg Pro Arg
 1 5 10 15

Leu Glu Thr Ile
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Leu Leu Val Ala Leu Gln Arg Leu Pro Val Arg Leu Pro Glu Gly Glu
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Ala Leu Gln Cys
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Pro Glu Glu Pro Pro Asn Tyr Pro Ala Ala Pro Ala Ser Asp Pro Leu
 1 5 10 15

Arg Glu Gly Ser
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Leu Pro Gln Leu Thr Gly Pro Val Leu Glu Leu Pro Glu Ala Thr Arg
1 5 10 15

Ala Pro Leu Glu
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Glu Glu Leu Met Met Glu Gly Asp Leu Leu Glu Val Thr Leu Asp Glu
1 5 10 15

Asn His Ser Ile
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Val Arg Leu Pro Glu Gly Glu Ala Leu Gln Cys Leu Thr Glu Arg Ala
1 5 10 15

Ile Ser Trp Gln Gly Arg Ala Arg Gln Ala Leu Ala Ser Glu Asp Val
20 25 30

Thr Ala Leu Leu Gly Arg Leu Ala Glu Leu Arg Gln Arg Leu Gln Ala
35 40 45

Glu Pro
50

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Asp Thr Lys Phe Leu Cys Pro Leu Cys Met Arg Ser Arg Arg Pro Arg
1 5 10 15

Leu Glu Thr Ile Leu Ala Leu Leu Val Ala Leu Gln Arg Leu Pro Val
20 25 30

Arg Leu Pro Glu Gly Glu Ala Leu Gln Cys Leu Thr Glu Arg Ala Ile
35 40 45

Ser Trp
50

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Gln Asp Tyr Pro Tyr Val Met Ala Asp Ser Leu Leu Asp Val Leu Thr
1 5 10 15

Lys Gly Gly His
20

<210> 660
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Met Ser Leu Pro Glu Asp Glu Gly His Thr Arg Thr Leu Asp Thr Ala
1 5 10 15

Lys Glu Met Glu
20

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<400> 661

Ile Phe Gln Lys Lys Leu Asp Glu Thr Thr Arg Leu Leu Arg Glu Leu
1 5 10 15

Gln Glu Ala Gln
20

<210> 662
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Pro Pro Asn Met Ile Cys Leu Leu Gly Pro Ser Tyr Arg Glu Met His
1 5 10 15

Leu Ala Glu Gln
20

<210> 663
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Thr Pro Gly Asp Ile Val Ser Thr Tyr Gly Val Arg Lys Ala Met Gly
1 5 10 15

Ile Ser Ile Pro
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<400> 664

Met Ser Leu Pro Glu Asp Glu Gly His Thr Arg Thr Leu Asp Thr Ala
1 5 10 15

Lys Glu Met Glu Ile Thr Glu Val Glu Pro Pro Gly Arg Leu Asp Ser
20 25 30

Ser Thr Gln Asp Arg Leu Ile Ala Leu Lys Ala Val Thr Asn Phe Gly
35 40 45

Val Pro
50

<210> 665
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<212> PRT
<213> Homo sapiens

<400> 665

Ile Phe Gln Lys Lys Leu Asp Glu Thr Thr Arg Leu Leu Arg Glu Leu
1 5 10 15

Gln Glu Ala Gln Asn Glu Arg Leu Ser Thr Arg Pro Pro Pro Asn Met
20 25 30

Ile Cys Leu Leu Gly Pro Ser Tyr Arg Glu Met His Leu Ala Glu Gln
35 40 45

Val Thr
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<210> 666
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<212> PRT
<213> Homo sapiens

<400> 666

Val Ala Gly Gly Pro Arg Lys Thr Ala Ala Pro Val Asn Ala Leu Val
1 5 10 15

Ser His Leu Leu
20

<210> 667
<211> 20
<212> PRT
<213> Homo sapiens

<400> 667

Val Glu Pro Glu Lys Leu Tyr Ala Met Pro Asp Pro Ala Gly Pro Asp
1 5 10 15

Gly His Leu Pro
20

<210> 668
<211> 20
<212> PRT
<213> Homo sapiens

<400> 668

Ala Val Ala Thr Leu Cys Asp Leu Phe Asp Arg Glu Ile Val Val Thr
1 5 10 15

Ile Ser Trp Ala
20

<210> 669
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<213> Homo sapiens

<400> 669

Lys Ser Ile Pro Gly Phe Ser Ser Leu Ser Leu Ser Asp Gln Met Ser
1 5 10 15

Val Leu Gln Ser
20

<210> 670
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<212> PRT

<213> Homo sapiens

<400> 670

Val Trp Met Glu Val Leu Val Leu Gly Val Ala Gln Arg Ser Leu Pro
1 5 10 15

Leu Gln Asp Glu
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<210> 671

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<212> PRT

<213> Homo sapiens

<400> 671

Val Trp Met Glu Val Leu Val Leu Gly Val Ala Gln Arg Ser Leu Pro
1 5 10 15

Leu Gln Asp Glu
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<210> 672

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<213> Homo sapiens

<400> 672

Ile Pro Gly Phe Ser Ser Leu Ser Leu Ser Asp Gln Met Ser Val Leu
1 5 10 15

Gln Ser Val Trp Met Glu Val Leu Val Leu Gly Val Ala Gln Arg Ser
20 25 30

Leu Pro Leu Gln Asp Glu Leu Ala Phe Ala Glu Asp Leu Val Leu Asp
35 40 45

Glu Glu
50

<210> 673

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<213> Homo sapiens

<400> 673

Leu His Tyr Gly Leu Pro Val Val Val Lys Leu Leu His Pro Pro Ser
1 5 10 15

His Trp Pro Leu
20

<210> 674
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<400> 674

Val Arg Ala His Gln Asp Thr Gln Arg Arg Thr Ser Met Gly Gly Thr
1 5 10 15

Gln Gln Gln Phe
20

<210> 675
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<212> PRT
<213> Homo sapiens

<400> 675

Gln Leu Leu Tyr Ser Pro Ile Glu Asn Ile Gln Arg Val Ala Ala Gly
1 5 10 15

Val Leu Cys Glu
20

<210> 676
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<213> Homo sapiens

<400> 676

Ile Glu Ala Glu Gly Ala Thr Ala Pro Leu Thr Glu Leu Leu His Ser
1 5 10 15

Arg Asn Glu Gly
20

<210> 677
<211> 20
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<213> Homo sapiens

<400> 677

Gly Ala Leu His Ile Leu Ala Arg Asp Val His Asn Arg Ile Val Ile
1 5 10 15

Arg Gly Leu Asn
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<210> 678
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<213> Homo sapiens

<400> 678

Gln Arg Arg Thr Ser Met Gly Gly Thr Gln Gln Gln Phe Val Glu Gly
1 5 10 15

Val Arg Met Glu Glu Ile Val Glu Gly Cys Thr Gly Ala Leu His Ile
20 25 30

Leu Ala Arg Asp Val His Asn Arg Ile Val Ile Arg Gly Leu Asn Thr
35 40 45

Ile Pro
50

<210> 679

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<212> PRT

<213> Homo sapiens

<400> 679

Cys Glu Leu Ala Gln Asp Lys Glu Ala Ala Glu Ala Ile Glu Ala Glu
1 5 10 15

Gly Ala Thr Ala Pro Leu Thr Glu Leu Leu His Ser Arg Asn Glu Gly
20 25 30

Val Ala Thr Tyr Ala Ala Ala Val Leu Phe Arg Met Ser Glu Asp Lys
35 40 45

Pro Gln
50

<210> 680

<211> 20

<212> PRT

<213> Homo sapiens

<400> 680

Ser Lys Ile Asp Trp Asn Asn Ile Arg Asn Ser Pro Pro Pro Phe Val
1 5 10 15

Pro Thr Leu Lys
20

<210> 681

<211> 20

<212> PRT

<213> Homo sapiens

<400> 681

Tyr Ser Lys Ala Leu Gly Ile Leu Gly Arg Ser Glu Ser Val Val Ser
1 5 10 15

Gly Leu Asp Ser
20

<210> 682
<211> 20
<212> PRT
<213> Homo sapiens

<400> 682

Glu Val Glu Ala Val Leu Ser Gln Lys Glu Val Glu Leu Lys Ala Ser
1 5 10 15

Glu Thr Gln Arg
20

<210> 683
<211> 20
<212> PRT
<213> Homo sapiens

<400> 683

Asp Ile Arg Glu Gln Ser Arg Lys Leu Gln Glu Ile Lys Glu Gln Glu
1 5 10 15

Tyr Gln Ala Gln
20

<210> 684
<211> 20
<212> PRT
<213> Homo sapiens

<400> 684

Arg Lys Ala Thr Glu Cys Gln His Lys Leu Leu Lys Ala Lys Asp Gln
1 5 10 15

Gly Lys Pro Glu
20

<210> 685
<211> 20
<212> PRT
<213> Homo sapiens

<400> 685

Arg Lys Ala Thr Glu Cys Gln His Lys Leu Leu Lys Ala Lys Asp Gln
1 5 10 15

Gly Lys Pro Glu
20

<210> 686
<211> 50
<212> PRT
<213> Homo sapiens

<400> 686

Ile Gln Thr Lys Ser Gln Gln Ile Gln Gln Met Ala Asp Lys Ile Leu
1 5 10 15

Glu Leu Glu Glu Lys His Arg Glu Ala Gln Val Ser Ala Gln His Leu
20 25 30

Glu Val His Leu Lys Gln Lys Glu Gln His Tyr Glu Glu Lys Ile Lys
35 40 45

Val Leu
50

<210> 687
<211> 20
<212> PRT
<213> Homo sapiens

<400> 687

Met Ser Leu Phe Asp Leu Phe Arg Gly Phe Phe Gly Phe Pro Gly Pro
1 5 10 15

Arg Ser His Arg
20

<210> 688
<211> 20
<212> PRT
<213> Homo sapiens

<400> 688

Phe Gly Phe Gly Phe Ser Phe Ser Pro Gly Gly Gly Ile Arg Phe His
1 5 10 15

Asp Asn Phe Gly
20

<210> 689
<211> 20
<212> PRT
<213> Homo sapiens

<400> 689

Glu Gly Gln Thr Leu Arg Asp Ser Met Leu Lys Tyr Pro Asp Ser His
 1 5 10 15

Gln Pro Arg Ile
 20

<210> 690
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 690

Thr Arg Glu Asp Asn Asp Leu Asp Ser Gln Val Ser Gln Glu Gly Leu
 1 5 10 15

Gly Pro Val Leu
 20

<210> 691
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 691

Thr Arg His Glu Ala Asp Ser Ser Pro Arg Gly Asp Pro Glu Ser Pro
 1 5 10 15

Arg Pro Pro Ala
 20

<210> 692
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 692

Pro Lys Ser Tyr Phe Lys Ser Ile Ser Val Thr Lys Ile Thr Lys Pro
 1 5 10 15

Asp Gly Ile Val Glu Glu Arg Arg Thr Val Val Asp Ser Glu Gly Arg
 20 25 30

Thr Glu Thr Thr Val Thr Arg His Glu Ala Asp Ser Ser Pro Arg Gly
 35 40 45

Asp Pro
 50

<210> 693
 <211> 50

<212> PRT
<213> Homo sapiens

<400> 693

Glu Glu Gly Gly Ser Trp Arg Arg Gly Asn Pro Arg Phe His Ser Pro
1 5 10 15

Gln His Pro Pro Glu Glu Phe Gly Phe Gly Phe Ser Phe Ser Pro Gly
20 25 30

Gly Gly Ile Arg Phe His Asp Asn Phe Gly Phe Asp Asp Leu Val Arg
35 40 45

Asp Phe
50

<210> 694
<211> 20
<212> PRT
<213> Homo sapiens

<400> 694

Ser Lys Gln Ile Gln Gln Leu Glu Ser Asn Asn Arg Asp Leu Gln Asp
1 5 10 15

Lys Asn Cys Leu
20

<210> 695
<211> 20
<212> PRT
<213> Homo sapiens

<400> 695

Leu Gln Asp Lys Asn Cys Leu Leu Glu Thr Ala Lys Leu Lys Leu Glu
1 5 10 15

Lys Glu Phe Ile
20

<210> 696
<211> 20
<212> PRT
<213> Homo sapiens

<400> 696

Leu Ala Lys Val Glu Leu Glu Lys Arg Gln Leu Gln Glu Arg Phe Thr
1 5 10 15

Asp Leu Glu Lys
20

<210> 697
<211> 20
<212> PRT
<213> Homo sapiens

<400> 697

Ile Tyr Glu Ser Ile Glu Glu Ala Lys Ser Glu Ala Met Lys Glu Met
1 5 10 15

Glu Lys Lys Leu
20

<210> 698
<211> 20
<212> PRT
<213> Homo sapiens

<400> 698

Gln Lys Asp Val Leu Asn Glu Asp Val Arg Asn Leu Thr Leu Lys Ile
1 5 10 15

Glu Gln Glu Thr
20

<210> 699
<211> 50
<212> PRT
<213> Homo sapiens

<400> 699

Glu Arg Arg Asp Arg Thr His Gly Ser Glu Ile Ile Asn Asp Leu Gln
1 5 10 15

Gly Arg Ile Cys Gly Leu Glu Glu Asp Leu Lys Asn Gly Lys Ile Leu
20 25 30

Leu Ala Lys Val Glu Leu Glu Lys Arg Gln Leu Gln Glu Arg Phe Thr
35 40 45

Asp Leu
50

<210> 700
<211> 50
<212> PRT
<213> Homo sapiens

<400> 700

Ser Gln Gln Lys Ile Asn Glu Leu Leu Lys Gln Lys Asp Val Leu Asn
1 5 10 15

Glu Asp Val Arg Asn Leu Thr Leu Lys Ile Glu Gln Glu Thr Gln Lys
20 25 30

Arg Cys Leu Thr Gln Asn Asp Leu Lys Met Gln Thr Gln Gln Val Asn
35 40 45

Thr Leu
50

<210> 701
<211> 20
<212> PRT
<213> Homo sapiens

<400> 701

Leu Lys Val Leu Asn Glu Gln Leu Gln Ser Lys Glu Val Glu Leu Leu
1 5 10 15

Gln Leu Arg Thr
20

<210> 702
<211> 20
<212> PRT
<213> Homo sapiens

<400> 702

Lys Glu Cys Ser Asp Leu Lys Ile Glu Leu Gln Lys Ala Lys Gln Thr
1 5 10 15

Asp Pro Tyr Gln
20

<210> 703
<211> 20
<212> PRT
<213> Homo sapiens

<400> 703

Ala Glu Leu Leu Arg Lys Leu Lys Thr Ser Thr Ala Ile Lys Lys Ala
1 5 10 15

Cys Ala Pro Val
20

<210> 704
<211> 20
<212> PRT
<213> Homo sapiens

<400> 704

Pro Leu Pro Gly Asp Val Lys Val Leu Ser Glu Lys Ala Ile Leu Gln
1 5 10 15

Ser Trp Thr Asp
20

<210> 705

<211> 20

<212> PRT

<213> Homo sapiens

<400> 705

Ala Phe Gly Glu Thr Lys Thr Lys Thr Leu Pro Leu Pro Asn Leu Pro
1 5 10 15

Pro Leu His Tyr
20

<210> 706

<211> 50

<212> PRT

<213> Homo sapiens

<400> 706

Glu Thr Gln Gln Val Met Arg Asn Leu Asn Pro Pro Ser Ser Asn Trp
1 5 10 15

Glu Val Glu Lys Leu Ser Cys Asp Leu Lys Ile His Gly Leu Glu Gln
20 25 30

Glu Leu Glu Leu Met Arg Lys Glu Cys Ser Asp Leu Lys Ile Glu Leu
35 40 45

Gln Lys
50

<210> 707

<211> 50

<212> PRT

<213> Homo sapiens

<400> 707

Ser Thr Lys Leu His Leu Met Asn Phe Thr Ala Thr Tyr Thr Arg His
1 5 10 15

Pro Pro Leu Leu Pro Asn Gly Lys Ala Leu Cys His Thr Thr Ser Ser
20 25 30

Pro Leu Pro Gly Asp Val Lys Val Leu Ser Glu Lys Ala Ile Leu Gln
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35

40

45

Ser Trp
50

<210> 708
<211> 20
<212> PRT
<213> Homo sapiens

<400> 708

Tyr Met Gln Gly Leu Lys Glu Leu Lys Glu Ser Leu Ser Glu Val Glu
1 5 10 15

Glu Lys Tyr Lys
20

<210> 709
<211> 20
<212> PRT
<213> Homo sapiens

<400> 709

Asn Glu Glu Lys Ser Lys Glu Leu Glu Arg Gln Lys His Met Cys Ser
1 5 10 15

Val Leu Gln His
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<210> 710
<211> 20
<212> PRT
<213> Homo sapiens

<400> 710

Leu Trp Lys Asp Lys Lys Ile Gly Ala Leu Glu Lys Gln Lys Glu Tyr
1 5 10 15

Ile Ala Cys Leu
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<210> 711
<211> 20
<212> PRT
<213> Homo sapiens

<400> 711

Glu Pro Val Ala Gly Ala Ile Thr Val Val Ser Gln Glu Ala Ala Gln
1 5 10 15

Val Leu Glu Ser

20

<210> 712
<211> 20
<212> PRT
<213> Homo sapiens

<400> 712

Glu Pro Val Ala Gly Ala Ile Thr Val Val Ser Gln Glu Ala Ala Gln
1 5 10 15

Val Leu Glu Ser
20

<210> 713
<211> 50
<212> PRT
<213> Homo sapiens

<400> 713

Leu Lys Glu Gly Leu Arg Gln Arg Asp Glu Leu Ile Glu Glu Lys Gln
1 5 10 15

Arg Met Gln Gln Lys Ile Asp Thr Met Thr Lys Glu Val Phe Asp Leu
20 25 30

Gln Glu Thr Leu Leu Trp Lys Asp Lys Lys Ile Gly Ala Leu Glu Lys
35 40 45

Gln Lys
50

<210> 714
<211> 50
<212> PRT
<213> Homo sapiens

<400> 714

Ser Ala Gly Glu Gly Pro Leu Asp Val Arg Leu Arg Lys Leu Ala Gly
1 5 10 15

Glu Lys Glu Glu Leu Leu Ser Gln Ile Arg Lys Leu Lys Leu Gln Leu
20 25 30

Glu Glu Glu Arg Gln Lys Cys Ser Arg Asn Asp Gly Thr Val Gly Asp
35 40 45

Leu Ala
50

<210> 715
<211> 20
<212> PRT
<213> Homo sapiens

<400> 715

Ser Leu Gln Lys His Leu Ala Glu Leu Asn His Gln Lys Gln Leu Glu
1 5 10 15

Ser Asn Lys Ile
20

<210> 716
<211> 20
<212> PRT
<213> Homo sapiens

<400> 716

Pro Gln Asp Gly Pro Arg Ser Lys Pro Gln Pro Lys Asp Asn Gly Asp
1 5 10 15

Val Cys Gln Asp
20

<210> 717
<211> 20
<212> PRT
<213> Homo sapiens

<400> 717

Cys Lys Asn Tyr Ile Ser Gln Tyr Ser Glu Ile Ala Ile Gln Met Met
1 5 10 15

Met His Met Gln
20

<210> 718
<211> 20
<212> PRT
<213> Homo sapiens

<400> 718

Pro Ile Lys Lys His Glu Val Pro Ala Lys Ser Asp Val Tyr Cys Glu
1 5 10 15

Val Cys Glu Phe
20

<210> 719
<211> 20
<212> PRT
<213> Homo sapiens

<400> 719

Asn Lys Thr Glu Lys Glu Ile Leu Asp Ala Phe Asp Lys Met Cys Ser
1 5 10 15

Lys Leu Pro Lys
20

<210> 720

<211> 50

<212> PRT

<213> Homo sapiens

<400> 720

Met Val Thr Asp Ile Gln Thr Ala Val Arg Thr Asn Ser Thr Phe Val
1 5 10 15

Gln Ala Leu Val Glu His Val Lys Glu Glu Cys Asp Arg Leu Gly Pro
20 25 30

Gly Met Ala Asp Ile Cys Lys Asn Tyr Ile Ser Gln Tyr Ser Glu Ile
35 40 45

Ala Ile
50

<210> 721

<211> 50

<212> PRT

<213> Homo sapiens

<400> 721

Gln Lys Gln Leu Glu Ser Asn Lys Ile Pro Glu Leu Asp Met Thr Glu
1 5 10 15

Val Val Ala Pro Phe Met Ala Asn Ile Pro Leu Leu Leu Tyr Pro Gln
20 25 30

Asp Gly Pro Arg Ser Lys Pro Gln Pro Lys Asp Asn Gly Asp Val Cys
35 40 45

Gln Asp
50

<210> 722

<211> 20

<212> PRT

<213> Homo sapiens

<400> 722

Met Pro Ala Leu Arg Pro Ala Leu Leu Trp Ala Leu Leu Ala Leu Trp
 1 5 10 15

Leu Cys Cys Ala
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<210> 723
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 <213> Homo sapiens

<400> 723

Tyr Cys Gln His Arg Asp Pro Cys Glu Lys Asn Arg Cys Gln Asn Gly
 1 5 10 15

Gly Thr Cys Val
 20

<210> 724
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 724

Cys His Met Leu Ser Arg Asp Thr Tyr Glu Cys Thr Cys Gln Val Gly
 1 5 10 15

Phe Thr Gly Lys
 20

<210> 725
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 725

Thr Asp Val Asn Glu Cys Asp Ile Pro Gly His Cys Gln His Gly Gly
 1 5 10 15

Thr Cys Leu Asn
 20

<210> 726
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 726

Val Asn Gly Gly Thr Cys Arg Gln Thr Gly Asp Phe Thr Phe Glu Cys
 1 5 10 15

Asn Cys Leu Pro
20

<210> 727
<211> 50
<212> PRT
<213> Homo sapiens

<400> 727

Thr Pro Ala His Ala Leu Gln Cys Arg Asp Gly Tyr Glu Pro Cys Val
1 5 10 15

Asn Glu Gly Met Cys Val Thr Tyr His Asn Gly Thr Gly Tyr Cys Lys
20 25 30

Cys Pro Glu Gly Phe Leu Gly Glu Tyr Cys Gln His Arg Asp Pro Cys
35 40 45

Glu Lys
50

<210> 728
<211> 50
<212> PRT
<213> Homo sapiens

<400> 728

Ser Gly Phe Thr Gly Glu Asp Cys Gln Tyr Ser Thr Ser His Pro Cys
1 5 10 15

Phe Val Ser Arg Pro Cys Leu Asn Gly Gly Thr Cys His Met Leu Ser
20 25 30

Arg Asp Thr Tyr Glu Cys Thr Cys Gln Val Gly Phe Thr Gly Lys Glu
35 40 45

Cys Gln
50